

ภาคผนวก ก

ผลการวิเคราะห์รูปแบบปัจจัยเชิงสาเหตุที่ส่งผลต่อคุณภาพผู้เรียน  
ในศูนย์พัฒนาเด็กเล็ก สังกัดองค์กรปกครองส่วนท้องถิ่น

ภาคตะวันออกเฉียงเหนือ

โดยใช้โปรแกรม LISREL Version 8.72

รูปแบบปัจจัยเชิงสาเหตุที่ส่งผลต่อคุณภาพผู้เรียนในศูนย์พัฒนาเด็กเล็ก  
สังกัดองค์กรปกครองส่วนท้องถิ่น ภาคตะวันออกเฉียงเหนือ

DATE: 6/18/2017

TIME: 19:25

L I S R E L 8.72

BY

Karl G. J"reskog & Dag S"rbom

This program is published exclusively by  
Scientific Software International, Inc.  
7383 N. Lincoln Avenue, Suite 100  
Lincolnwood, IL 60712, U.S.A.

Phone: (800)247-6113, (847)675-0720, Fax: (847)675-2140

Copyright by Scientific Software International, Inc., 1981-2005

Use of this program is subject to the terms specified in the

Universal Copyright Convention.

Website: www.ssicentral.com

The following lines were read from file C:\Users\Computer\Desktop\QUA.LPJ 1.LS8:

```

TI QUA
!DA NI=24 NO=734 MA=CM
SY='C:\Users\Computer\Desktop\QUA.dsf' NG=1
SE
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 1 2
3 4 5 6 7 8 /
MO NX=8 NY=16 NK=2 NE=4 BE=FU GA=FI PS=SY TE=SY TD=SY
LE
OR ED BE QUA
LK
TRA PAR
FR LY(1,1) LY(2,1) LY(3,1) LY(4,1) LY(5,2) LY(6,2) LY(7,2) LY(8,2) LY(9,3)
FR LY(10,3) LY(11,3) LY(12,3) LY(13,4) LY(14,4) LY(15,4) LY(16,4) LX(1,1) LX(2,1)
FR LX(3,1) LX(4,1) LX(5,2) LX(6,2) LX(7,2) LX(8,2) BE(2,1) BE(3,1) BE(3,2)
FR BE(4,1) BE(4,2) BE(4,3) GA(1,1) GA(1,2) GA(2,1) GA(2,2) GA(3,1) GA(3,2)
FR GA(4,1) GA(4,2)
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 TE 15 15 TE 16 16 TE 6 3 TE 10 4 TE 3 1 TE 6 1
FR TE 16 15 TE 12 11 TE 12 6 TE 8 5 TE 4 3 TE 4 2 TH 2 7 TE 4 1 TE 14 7 TE 15 9
FR TE 13 11 TE 15 10 TE 16 12 TE 10 1 TH 5 5 TH 7 1 TE 9 4 TH 4 5 TH 2 12 TE 16 8
FR TE 15 4 TE 13 2 TE 10 3 TH 2 13 TE 13 7 TE 15 5 TE 10 6 TE 16 13 TE 14 3 TE 16 4
FR TE 16 11 TE 9 7 TE 12 13 TE 13 4 TE 8 7 TE 11 8 TE 12 5 TE 11 3 TE 9 3 TE 12 1
FR TE 11 12 TE 16 2 TE 9 1 TE 16 8 TE 7 6 TE 16 10 TE 13 10 TE 13 8 TE 15 2 TE 7 5
FR TE 9 2 TE 5 1 TE 16 3 TE 11 2 TE 12 2 TE 12 3 TE 12 7 TE 15 14 TE 11 9 TE 11 7
FR TE 6 2 TH 4 1 TH 3 11 TH 4 1 TE 9 6 TE 11 5 TH 3 15 TH 6 12 TH 3 3 TH 5 14
FR TE 16 14 TE 16 9 TH 5 15 TH 8 4 TH 4 14 TE 11 4 TH 3 10 TH 2 5 TH 3 8 TH 3 1
FR TH 6 7 TH 6 14 TE 14 8 TE 15 7 TE 14 1 TE 3 2 TE 10 8 TE 7 2 TE 9 8 TE 15 6
FR TE 15 2 TE 14 9 TE 15 5 TE 12 9 TE 16 5 TE 6 4 TE 12 4 TE 13 1 TH 8 8 TH 8 5
FR TH 5 16 TH 1 2 TH 4 16 TH 1 2 TH 4 7 TH 7 9 TH 7 8 TH 4 8 TH 6 9 TH 8 9
FR TH 1 16 TH 4 15 TH 6 13 TH 7 4 TH 4 12 TH 4 4 TH 4 3 TH 6 12 TH 5 12 TH 1 10
FR TH 7 5 TH 1 3 TH 5 11 TH 7 12 TH 5 6 TH 6 1 TH 4 9 TH 1 6 TH 3 5 TH 1 5
FR TH 8 3 TH 6 15 TH 3 5 TH 1 5 TH 8 14 TH 3 16 TH 8 15 TH 5 4 TH 6 4 TH 2 2
FR TH 8 13 TH 8 16 TH 3 6 TH 5 3 TH 8 2 TH 8 1 TH 1 9 TH 3 4 TH 1 1 TH 6 11
FR TH 1 12 TH 7 1 TH 1 13 TH 1 5 TH 3 9 TH 6 4 TH 8 11 TH 7 1 TH 6 8 TH 6 3
FR TH 7 1 TH 7 10 TH 1 15 TH 8 2 TH 2 8 TH 1 14 TH 5 7 TH 2 15 TH 1 4 TE 13 6
FR TD 1 1 TD 2 2 TD 3 3 TD 4 4 TD 5 5 TD 6 6 TD 7 7 TD 8 8 TD 8 7 TD 8 2
FR TD 6 4 TD 5 4 TD 6 5 TD 7 2
PD
OU AM PC RS EF FS SS SC
TI QUA

```

Number of Input Variables 24  
Number of Y - Variables 16  
Number of X - Variables 8  
Number of ETA - Variables 4  
Number of KSI - Variables 2  
Number of Observations 734

TI QUA

## Covariance Matrix

	oy1	oy2	oy3	oy4	ey5	ey6
oy1	0.25					
oy2	0.19	0.31				
oy3	0.19	0.18	0.26			
oy4	0.06	0.11	0.02	0.70		
ey5	0.10	0.14	0.07	0.17	0.31	
ey6	0.17	0.17	0.17	0.11	0.11	0.27
ey7	0.10	0.13	0.08	0.16	0.14	0.12
ey8	0.09	0.15	0.08	0.17	0.18	0.11
by9	0.14	0.17	0.14	0.11	0.12	0.13
by10	0.17	0.18	0.15	0.07	0.11	0.14
by11	0.13	0.16	0.13	0.15	0.11	0.11
by12	0.15	0.18	0.14	0.16	0.12	0.15
qy13	0.08	0.09	0.06	0.14	0.09	0.07
qy14	0.09	0.11	0.08	0.12	0.09	0.08
qy15	0.08	0.10	0.06	0.18	0.11	0.08
qy16	0.10	0.11	0.07	0.18	0.10	0.09
tx1	0.14	0.19	0.13	0.13	0.16	0.15
tx2	0.11	0.17	0.10	0.18	0.19	0.14
tx3	0.12	0.18	0.12	0.15	0.18	0.15
tx4	0.15	0.21	0.14	0.14	0.22	0.16
px5	0.11	0.17	0.08	0.21	0.19	0.12
px6	0.14	0.20	0.12	0.21	0.19	0.16
px7	0.15	0.19	0.10	0.25	0.21	0.15
px8	0.13	0.19	0.11	0.19	0.17	0.15

## Covariance Matrix

	ey7	ey8	by9	by10	by11	by12
ey7	0.26					
ey8	0.15	0.33				
by9	0.13	0.13	0.28			
by10	0.12	0.11	0.19	0.25		
by11	0.14	0.10	0.18	0.19	0.28	
by12	0.13	0.12	0.18	0.18	0.20	0.26
qy13	0.11	0.08	0.13	0.12	0.15	0.12
qy14	0.12	0.08	0.13	0.13	0.14	0.12
qy15	0.10	0.10	0.10	0.11	0.14	0.13
qy16	0.11	0.08	0.13	0.13	0.15	0.15
tx1	0.15	0.14	0.15	0.15	0.14	0.14
tx2	0.20	0.15	0.17	0.16	0.17	0.14
tx3	0.16	0.14	0.17	0.15	0.14	0.15
tx4	0.16	0.15	0.20	0.18	0.15	0.16
px5	0.15	0.16	0.16	0.15	0.16	0.15
px6	0.16	0.19	0.16	0.17	0.16	0.17
px7	0.19	0.22	0.16	0.17	0.17	0.17
px8	0.17	0.19	0.15	0.16	0.16	0.15

## Covariance Matrix

	qy13	qy14	qy15	qy16	tx1	tx2
qy13	0.20					
qy14	0.15	0.19				
qy15	0.15	0.15	0.26			
qy16	0.14	0.15	0.19	0.24		
tx1	0.09	0.09	0.08	0.10	0.37	
tx2	0.14	0.11	0.11	0.14	0.31	0.45
tx3	0.11	0.11	0.09	0.12	0.29	0.32
tx4	0.12	0.13	0.10	0.12	0.34	0.36
px5	0.11	0.11	0.14	0.15	0.18	0.21
px6	0.11	0.11	0.13	0.16	0.21	0.23
px7	0.13	0.13	0.14	0.16	0.22	0.25
px8	0.13	0.14	0.14	0.15	0.19	0.20

## Covariance Matrix

	tx3	tx4	px5	px6	px7	px8
tx3	0.36					
tx4	0.34	0.51				
px5	0.20	0.24	0.31			
px6	0.23	0.24	0.24	0.34		
px7	0.23	0.27	0.27	0.30	0.42	
px8	0.20	0.24	0.24	0.27	0.31	0.36

TI QUA

## Parameter Specifications

## LAMBDA-Y

	OR	ED	BE	QUA
oy1	0	0	0	0
oy2	1	0	0	0
oy3	2	0	0	0
oy4	3	0	0	0
ey5	0	0	0	0
ey6	0	4	0	0
ey7	0	5	0	0
ey8	0	6	0	0
by9	0	0	0	0
by10	0	0	7	0
by11	0	0	8	0
by12	0	0	9	0
qy13	0	0	0	0
qy14	0	0	0	10
qy15	0	0	0	11
qy16	0	0	0	12

## LAMBDA-X

	TRA	PAR
tx1	13	0
tx2	14	0
tx3	15	0
tx4	16	0
px5	0	17
px6	0	18
px7	0	19
px8	0	20

## BETA

	OR	ED	BE	QUA
OR	0	0	0	0
ED	21	0	0	0
BE	22	23	0	0
QUA	24	25	26	0

## GAMMA

	TRA	PAR
OR	27	28
ED	29	30
BE	31	32
QUA	33	34

## PHI

	TRA	PAR
TRA	0	
PAR	35	0

## PSI

OR	ED	BE	QUA
36	37	38	39

## THETA-EPS

	oy1	oy2	oy3	oy4	ey5	ey6
oy1	40					
oy2	0	41				
oy3	42	43	44			
oy4	45	46	47	48		
ey5	49	0	0	0	50	
ey6	51	52	53	54	0	55
ey7	0	56	0	0	57	58
ey8	0	0	0	0	60	0
by9	63	64	65	66	0	67
by10	71	0	72	73	0	74
by11	0	77	78	79	80	0
by12	85	86	87	88	89	90
qy13	95	96	0	97	0	98
qy14	105	0	106	0	0	0
qy15	0	111	0	112	113	114
qy16	0	120	121	122	123	0

## THETA-EPS

	ey7	ey8	by9	by10	by11	by12
ey7	59					
ey8	61	62				
by9	68	69	70			
by10	0	75	0	76		
by11	81	82	83	0	84	
by12	91	0	92	0	93	94
qy13	99	100	0	101	102	103
qy14	107	108	109	0	0	0
qy15	115	0	116	117	0	0
qy16	0	124	125	126	127	128

## THETA-EPS

	qy13	qy14	qy15	qy16
qy13	104			
qy14	0	110		
qy15	0	118	119	
qy16	129	130	131	132

## THETA-DELTA-EPS

	oy1	oy2	oy3	oy4	ey5	ey6
tx1	133	134	135	136	137	138
tx2	0	147	0	0	148	0
tx3	155	0	156	157	158	159
tx4	167	0	168	169	170	0
px5	0	0	180	181	182	183
px6	192	0	193	194	0	0
px7	206	0	0	207	208	0
px8	215	216	217	218	219	0

## THETA-DELTA-EPS

	ey7	ey8	by9	by10	by11	by12
tx1	0	0	139	140	0	141
tx2	149	150	0	0	0	151
tx3	0	160	161	162	163	0
tx4	171	172	173	0	174	175
px5	184	0	0	0	185	186
px6	195	196	197	0	198	199
px7	0	209	210	211	0	212
px8	0	220	221	0	222	0

## THETA-DELTA-EPS

	qy13	qy14	qy15	qy16
tx1	142	143	144	145
tx2	152	0	153	0
tx3	0	0	164	165
tx4	0	176	177	178
px5	0	187	188	189
px6	200	201	202	0
px7	0	0	0	0
px8	223	224	225	226

## THETA-DELTA

	tx1	tx2	tx3	tx4	px5	px6
tx1	146					
tx2	0	154				
tx3	0	0	166			
tx4	0	0	0	179		
px5	0	0	0	190	191	
px6	0	0	0	203	204	205
px7	0	213	0	0	0	0
px8	0	227	0	0	0	0

## THETA-DELTA

	px7	px8
px7	214	
px8	228	229

## TI QUA

Number of Iterations = 40

LISREL Estimates (Maximum Likelihood)

## LAMBDA-Y

	OR	ED	BE	QUA
oy1	0.36	- -	- -	- -
oy2	0.54 (0.03) 20.13	- -	- -	- -
oy3	0.30 (0.02) 16.82	- -	- -	- -
oy4	0.57 (0.06) 10.30	- -	- -	- -
ey5	- -	0.36	- -	- -
ey6	- -	0.32 (0.02) 14.63	- -	- -
ey7	- -	0.37 (0.02) 17.32	- -	- -
ey8	- -	0.36 (0.02) 17.31	- -	- -
by9	- -	- -	0.45	- -
by10	- -	- -	0.43 (0.02) 25.90	- -

by11	--	--	0.44 (0.02) 24.14	--
by12	--	--	0.41 (0.02) 24.59	--
qy13	--	--	--	0.37
qy14	--	--	--	0.39 (0.02) 22.19
qy15	--	--	--	0.40 (0.02) 18.90
qy16	--	--	--	0.47 (0.03) 17.69

## LAMBDA-X

	TRA	PAR
	-----	-----
tx1	0.53 (0.02) 30.00	--
tx2	0.58 (0.02) 30.00	--
tx3	0.55 (0.02) 31.80	--
tx4	0.62 (0.02) 30.31	--
px5	--	0.49 (0.02) 28.84
px6	--	0.55 (0.02) 32.41
px7	--	0.56 (0.02) 28.77
px8	--	0.49 (0.02) 26.85

## BETA

	OR	ED	BE	QUA
	-----	-----	-----	-----
OR	--	--	--	--
ED	0.27 (0.04) 6.31	--	--	--
BE	0.56 (0.09) 6.29	-0.02 (0.28) -0.09	--	--
QUA	-0.30 (0.12) -2.49	0.32 (0.35) 0.90	0.84 (0.09) 9.58	--

## GAMMA

	TRA	PAR
OR	0.24 (0.04) 5.35	0.48 (0.05) 9.36
ED	0.12 (0.05) 2.35	0.67 (0.06) 11.13
BE	0.14 (0.05) 2.75	0.28 (0.20) 1.44
QUA	-0.08 (0.06) -1.25	-0.03 (0.25) -0.14

## Covariance Matrix of ETA and KSI

	OR	ED	BE	QUA	TRA	PAR
OR	1.00					
ED	0.78	1.00				
BE	0.80	0.78	1.00			
QUA	0.55	0.64	0.77	1.00		
TRA	0.59	0.78	0.66	0.52	1.00	
PAR	0.66	0.93	0.73	0.62	0.74	1.00

## PHI

	TRA	PAR
TRA	1.00	
PAR	0.74 (0.02) 40.22	1.00

## PSI

Note: This matrix is diagonal.

OR	ED	BE	QUA
0.54 (0.05) 11.97	0.07 (0.04) 1.67	0.28 (0.03) 9.69	0.38 (0.04) 9.82

## Squared Multiple Correlations for Structural Equations

OR	ED	BE	QUA
0.46	0.93	0.72	0.62

## Squared Multiple Correlations for Reduced Form

OR	ED	BE	QUA
0.46	0.89	0.56	0.39

## Reduced Form

	TRA	PAR
OR	0.24 (0.04) 5.35	0.48 (0.05) 9.36
ED	0.18 (0.05) 3.49	0.80 (0.06) 13.08
BE	0.26 (0.05) 5.55	0.53 (0.05) 10.93
QUA	0.13 (0.05) 2.75	0.52 (0.05) 9.85



THETA-EPS						
	oy1	oy2	oy3	oy4	ey5	ey6
oy1	0.12 (0.01) 16.44					
oy2	--	0.01 (0.01) 1.27				
oy3	0.08 (0.01) 11.53	0.02 (0.01) 2.43	0.17 (0.01) 15.07			
oy4	-0.14 (0.02) -8.30	-0.20 (0.02) -8.28	-0.14 (0.02) -8.31	0.38 (0.04) 8.79		
ey5	0.01 (0.00) 2.70	--	--	--	0.19 (0.01) 16.31	
ey6	0.08 (0.01) 11.00	0.03 (0.01) 4.34	0.10 (0.01) 12.46	-0.02 (0.01) -2.06	--	0.17 (0.01) 17.00
ey7	--	-0.02 (0.01) -3.63	--	--	0.01 (0.01) 1.69	0.01 (0.01) 1.81
ey8	--	--	--	--	0.06 (0.01) 6.25	--
by9	0.01 (0.01) 2.10	-0.02 (0.01) -4.06	0.03 (0.01) 4.61	-0.09 (0.01) -6.63	--	0.01 (0.01) 1.96
by10	0.04 (0.00) 9.00	--	0.05 (0.01) 8.54	-0.12 (0.01) -8.76	--	0.03 (0.01) 5.41
by11	--	-0.03 (0.01) -5.57	0.02 (0.01) 3.90	-0.04 (0.01) -2.64	-0.01 (0.01) -2.25	--
by12	0.02 (0.00) 5.31	0.00 (0.01) -0.83	0.04 (0.01) 7.28	-0.02 (0.01) -1.65	0.01 (0.00) 1.70	0.04 (0.01) 8.64
qy13	0.00 (0.00) 1.04	-0.02 (0.00) -4.74	--	0.03 (0.01) 3.52	--	-0.01 (0.00) -2.35
qy14	0.01 (0.00) 2.70	--	0.02 (0.00) 5.56	--	--	--
qy15	--	-0.01 (0.00) -2.54	--	0.06 (0.01) 5.86	0.02 (0.01) 2.94	0.00 (0.00) 0.17
qy16	--	-0.03 (0.00) -5.91	-0.01 (0.00) -1.49	0.04 (0.01) 3.77	-0.01 (0.01) -2.51	--
THETA-EPS						
	ey7	ey8	by9	by10	by11	by12
ey7	0.12 (0.01) 12.85					
ey8	0.02 (0.01) 2.96	0.21 (0.01) 16.36				

by9	0.01 (0.00) 1.35	0.00 (0.01) 0.41	0.08 (0.01) 10.61			
by10	- -	0.00 (0.00) -0.66	- -	0.07 (0.01) 13.61		
by11	0.01 (0.00) 2.18	-0.02 (0.01) -3.52	-0.02 (0.01) -3.92	- -	0.09 (0.01) 12.58	
by12	0.01 (0.00) 3.26	- -	-0.01 (0.01) -1.78	- -	0.02 (0.01) 3.75	0.09 (0.01) 13.41
qy13	0.02 (0.00) 4.70	-0.01 (0.01) -2.37	- -	0.00 (0.00) -0.76	0.02 (0.00) 4.16	0.00 (0.00) 1.09
qy14	0.02 (0.00) 5.88	-0.01 (0.00) -1.67	0.00 (0.00) -0.86	- -	- -	- -
qy15	0.01 (0.00) 2.06	- -	-0.03 (0.01) -6.26	-0.02 (0.00) -5.83	- -	- -
qy16	- -	-0.03 (0.01) -5.51	-0.03 (0.01) -4.72	-0.03 (0.01) -5.23	-0.01 (0.01) -1.80	0.00 (0.01) 0.22

## THETA-EPS

	qy13	qy14	qy15	qy16
qy13	0.06 (0.01) 10.89			
qy14	- -	0.04 (0.01) 7.21		
qy15	- -	0.00 (0.01) -0.70	0.10 (0.01) 10.96	
qy16	-0.03 (0.01) -5.05	-0.04 (0.01) -4.39	0.00 (0.01) -0.15	0.02 (0.02) 1.32

## Squared Multiple Correlations for Y - Variables

oy1	oy2	oy3	oy4	ey5	ey6
0.52	0.95	0.34	0.46	0.41	0.38

## Squared Multiple Correlations for Y - Variables

ey7	ey8	by9	by10	by11	by12
0.53	0.39	0.73	0.72	0.68	0.65

## Squared Multiple Correlations for Y - Variables

qy13	qy14	qy15	qy16
0.69	0.78	0.62	0.91

## THETA-DELTA-EPS

	oy1	oy2	oy3	oy4	ey5	ey6
tx1	0.03 (0.01) 4.86	0.02 (0.01) 3.64	0.04 (0.01) 6.67	-0.03 (0.01) -3.07	0.02 (0.01) 2.23	0.02 (0.01) 4.00

tx2	- -	-0.02 (0.00) -3.24	- -	- -	0.03 (0.01) 3.93	- -
tx3	0.01 (0.00) 1.14	- -	0.03 (0.01) 5.34	-0.03 (0.01) -2.83	0.02 (0.01) 3.22	0.01 (0.00) 2.89
tx4	0.02 (0.01) 3.75	- -	0.03 (0.01) 4.76	-0.06 (0.01) -5.23	0.05 (0.01) 5.48	- -
px5	- -	- -	0.00 (0.00) -1.17	0.03 (0.01) 2.18	0.03 (0.01) 4.97	-0.02 (0.00) -3.24
px6	0.01 (0.00) 3.41	- -	0.01 (0.00) 1.77	0.01 (0.01) 1.10	- -	- -
px7	0.03 (0.00) 6.78	- -	- -	0.05 (0.01) 3.73	0.02 (0.01) 2.99	- -
px8	0.01 (0.00) 2.71	0.01 (0.00) 2.34	0.01 (0.00) 2.57	0.02 (0.01) 1.41	0.00 (0.01) 0.66	- -

## THETA-DELTA-EPS

	ey7	ey8	by9	by10	by11	by12
	-----	-----	-----	-----	-----	-----
tx1	- -	- -	0.00 (0.01) 0.09	0.00 (0.00) -0.10	- -	0.00 (0.00) 0.43
tx2	0.03 (0.01) 6.40	0.00 (0.01) -0.56	- -	- -	- -	-0.01 (0.00) -2.17
tx3	- -	-0.01 (0.01) -2.12	0.01 (0.00) 1.50	-0.01 (0.00) -2.61	-0.02 (0.00) -4.71	- -
tx4	-0.02 (0.01) -3.85	-0.02 (0.01) -2.64	0.01 (0.01) 1.77	- -	-0.04 (0.01) -6.96	-0.01 (0.01) -2.72
px5	-0.01 (0.00) -2.19	- -	- -	- -	0.01 (0.00) 2.22	0.01 (0.00) 1.92
px6	-0.03 (0.00) -6.26	0.01 (0.01) 0.90	-0.02 (0.00) -4.17	- -	0.00 (0.00) -1.07	0.01 (0.00) 2.44
px7	- -	0.03 (0.01) 4.75	-0.02 (0.01) -4.15	0.00 (0.00) -1.25	- -	0.00 (0.00) 1.10
px8	- -	0.03 (0.01) 3.94	-0.01 (0.00) -3.01	- -	0.00 (0.00) -0.20	- -

## THETA-DELTA-EPS

	qy13	qy14	qy15	qy16
	-----	-----	-----	-----
tx1	-0.01 (0.00) -2.14	-0.01 (0.00) -2.18	-0.02 (0.01) -2.97	-0.02 (0.01) -4.84
tx2	0.03 (0.00) 6.37	- -	0.00 (0.01) -0.68	- -
tx3	- -	- -	-0.02 (0.01) -4.03	-0.01 (0.00) -2.02

tx4	--	0.01 (0.00) 1.44	-0.03 (0.01) -3.72	-0.03 (0.01) -5.46
px5	--	0.00 (0.00) -1.21	0.02 (0.00) 3.68	0.01 (0.00) 2.31
px6	-0.01 (0.00) -2.74	-0.02 (0.00) -4.19	-0.01 (0.00) -1.26	--
px7	--	--	--	--
px8	0.01 (0.00) 2.65	0.02 (0.00) 3.94	0.02 (0.01) 3.03	0.01 (0.00) 2.53

THETA-DELTA

	tx1	tx2	tx3	tx4	px5	px6
tx1	0.08 (0.01) 15.39					
tx2	--	0.11 (0.01) 16.04				
tx3	--	--	0.06 (0.00) 13.48			
tx4	--	--	--	0.12 (0.01) 15.01		
px5	--	--	--	0.01 (0.00) 1.66	0.07 (0.01) 11.56	
px6	--	--	--	-0.02 (0.00) -4.41	-0.03 (0.00) -5.43	0.04 (0.01) 7.43
px7	--	0.02 (0.00) 3.87	--	--	--	--
px8	--	-0.01 (0.00) -2.21	--	--	--	--

THETA-DELTA

	px7	px8
px7	0.11 (0.01) 15.13	
px8	0.04 (0.01) 6.78	0.12 (0.01) 16.54

Squared Multiple Correlations for X - Variables

tx1	tx2	tx3	tx4	px5	px6
0.77	0.76	0.82	0.77	0.76	0.87

Squared Multiple Correlations for X - Variables

px7	px8
0.74	0.68

## Goodness of Fit Statistics

Degrees of Freedom = 71  
 Minimum Fit Function Chi-Square = 68.05 (P = 0.58)  
 Normal Theory Weighted Least Squares Chi-Square = 68.08 (P = 0.58)  
 Estimated Non-centrality Parameter (NCP) = 0.0  
 90 Percent Confidence Interval for NCP = (0.0 ; 20.23)

Minimum Fit Function Value = 0.093  
 Population Discrepancy Function Value (F0) = 0.0  
 90 Percent Confidence Interval for F0 = (0.0 ; 0.028)  
 Root Mean Square Error of Approximation (RMSEA) = 0.0  
 90 Percent Confidence Interval for RMSEA = (0.0 ; 0.020)  
 P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 0.72  
 90 Percent Confidence Interval for ECVI = (0.72 ; 0.75)  
 ECVI for Saturated Model = 0.82  
 ECVI for Independence Model = 68.13

Chi-Square for Independence Model with 276 Degrees of Freedom = 49887.75  
 Independence AIC = 49935.75  
 Model AIC = 526.08  
 Saturated AIC = 600.00  
 Independence CAIC = 50070.12  
 Model CAIC = 1808.14  
 Saturated CAIC = 2279.55

Normed Fit Index (NFI) = 1.00  
 Non-Normed Fit Index (NNFI) = 1.00  
 Parsimony Normed Fit Index (PNFI) = 0.26  
 Comparative Fit Index (CFI) = 1.00  
 Incremental Fit Index (IFI) = 1.00  
 Relative Fit Index (RFI) = 0.99

Critical N (CN) = 1095.62

Root Mean Square Residual (RMR) = 0.0045  
 Standardized RMR = 0.013  
 Goodness of Fit Index (GFI) = 0.99  
 Adjusted Goodness of Fit Index (AGFI) = 0.97  
 Parsimony Goodness of Fit Index (PGFI) = 0.23

TI QUA

## Fitted Covariance Matrix

	oy1	oy2	oy3	oy4	ey5	ey6
oy1	0.25					
oy2	0.20	0.31				
oy3	0.19	0.18	0.25			
oy4	0.06	0.11	0.03	0.70		
ey5	0.11	0.15	0.08	0.16	0.31	
ey6	0.17	0.17	0.17	0.12	0.11	0.27
ey7	0.10	0.14	0.09	0.16	0.14	0.13
ey8	0.10	0.15	0.08	0.16	0.18	0.12
by9	0.14	0.17	0.14	0.11	0.12	0.12
by10	0.17	0.19	0.15	0.08	0.12	0.13
by11	0.13	0.16	0.12	0.16	0.11	0.11
by12	0.14	0.17	0.14	0.17	0.12	0.15
qy13	0.08	0.09	0.06	0.14	0.08	0.07
qy14	0.09	0.12	0.08	0.12	0.09	0.08
qy15	0.08	0.11	0.07	0.18	0.11	0.08
qy16	0.09	0.11	0.07	0.18	0.09	0.10
tx1	0.14	0.19	0.13	0.15	0.16	0.15
tx2	0.13	0.17	0.10	0.20	0.19	0.14
tx3	0.12	0.18	0.12	0.16	0.17	0.15
tx4	0.15	0.20	0.14	0.15	0.22	0.15
px5	0.12	0.17	0.09	0.21	0.19	0.13
px6	0.15	0.20	0.11	0.22	0.18	0.16
px7	0.16	0.20	0.11	0.26	0.20	0.17
px8	0.13	0.19	0.11	0.20	0.17	0.15

Fitted Covariance Matrix						
	ey7	ey8	by9	by10	by11	by12
ey7	0.26					
ey8	0.16	0.34				
by9	0.14	0.13	0.28			
by10	0.12	0.12	0.19	0.25		
by11	0.14	0.10	0.18	0.19	0.29	
by12	0.13	0.12	0.18	0.18	0.20	0.26
qy13	0.11	0.07	0.13	0.12	0.14	0.12
qy14	0.12	0.08	0.13	0.13	0.13	0.12
qy15	0.10	0.09	0.10	0.11	0.14	0.13
qy16	0.11	0.08	0.13	0.13	0.15	0.15
tx1	0.15	0.15	0.16	0.15	0.15	0.15
tx2	0.20	0.16	0.17	0.16	0.17	0.15
tx3	0.16	0.14	0.17	0.14	0.14	0.15
tx4	0.16	0.15	0.19	0.17	0.14	0.15
px5	0.16	0.16	0.16	0.15	0.17	0.15
px6	0.16	0.19	0.16	0.17	0.17	0.18
px7	0.19	0.22	0.16	0.17	0.18	0.17
px8	0.17	0.19	0.15	0.15	0.16	0.15

Fitted Covariance Matrix						
	qy13	qy14	qy15	qy16	tx1	tx2
qy13	0.20					
qy14	0.14	0.19				
qy15	0.15	0.15	0.26			
qy16	0.14	0.14	0.18	0.24		
tx1	0.09	0.10	0.09	0.10	0.37	
tx2	0.14	0.12	0.12	0.14	0.31	0.45
tx3	0.10	0.11	0.09	0.12	0.29	0.32
tx4	0.12	0.13	0.10	0.12	0.33	0.36
px5	0.11	0.11	0.14	0.15	0.19	0.21
px6	0.12	0.12	0.13	0.16	0.22	0.24
px7	0.13	0.13	0.14	0.16	0.22	0.26
px8	0.12	0.13	0.14	0.15	0.19	0.20

Fitted Covariance Matrix						
	tx3	tx4	px5	px6	px7	px8
tx3	0.36					
tx4	0.34	0.50				
px5	0.20	0.23	0.31			
px6	0.22	0.24	0.24	0.35		
px7	0.23	0.26	0.27	0.31	0.43	
px8	0.20	0.23	0.24	0.27	0.31	0.36

Fitted Residuals						
	oy1	oy2	oy3	oy4	ey5	ey6
oy1	0.00					
oy2	0.00	0.00				
oy3	0.00	0.00	0.01			
oy4	-0.01	0.00	-0.01	0.00		
ey5	-0.01	-0.01	-0.01	0.01	0.00	
ey6	0.00	0.00	0.00	-0.01	-0.01	0.00
ey7	0.00	0.00	0.00	0.00	0.00	-0.01
ey8	-0.01	0.00	0.00	0.01	0.00	0.00
by9	0.00	0.00	0.00	0.00	0.00	0.00
by10	0.00	0.00	0.00	-0.01	-0.01	0.00
by11	0.00	0.00	0.00	-0.01	0.00	0.00
by12	0.00	0.00	0.00	-0.01	0.00	0.00
qy13	0.00	0.00	0.00	0.00	0.00	0.00
qy14	0.00	0.00	0.00	0.00	0.00	0.00
qy15	0.00	0.00	0.00	0.00	0.00	0.00
qy16	0.00	0.00	0.00	-0.01	0.00	0.00
tx1	0.00	0.00	0.00	-0.01	-0.01	0.00
tx2	-0.01	0.00	-0.01	-0.02	0.00	-0.01
tx3	0.00	0.01	0.00	-0.01	0.00	0.00
tx4	0.00	0.01	0.00	-0.01	0.00	0.01
px5	-0.01	0.00	-0.01	0.00	0.00	-0.01
px6	0.00	0.00	0.00	-0.01	0.00	0.00
px7	-0.01	-0.01	-0.01	-0.01	0.00	-0.01
px8	0.00	0.00	0.00	-0.01	0.00	0.00

Fitted Residuals						
	ey7	ey8	by9	by10	by11	by12
ey7	0.00					
ey8	0.00	0.00				
by9	0.00	0.00	0.00			
by10	0.00	0.00	0.00	0.00		
by11	0.00	0.00	0.00	0.00	0.00	
by12	0.00	0.00	0.00	0.00	0.00	0.00
qy13	0.00	0.00	0.00	0.00	0.00	0.00
qy14	0.00	0.00	0.00	0.00	0.01	0.00
qy15	0.00	0.00	0.00	0.00	0.00	0.00
qy16	0.00	0.00	0.00	0.00	0.00	0.00
tx1	0.00	-0.01	0.00	0.00	-0.01	-0.01
tx2	0.00	-0.01	0.00	-0.01	0.00	-0.01
tx3	0.00	0.00	0.00	0.00	0.00	0.00
tx4	0.00	0.00	0.00	0.01	0.00	0.00
px5	0.00	0.00	0.00	0.00	-0.01	0.00
px6	-0.01	0.00	0.00	0.00	-0.01	0.00
px7	-0.01	0.00	0.00	0.00	-0.01	-0.01
px8	-0.01	0.00	0.01	0.01	0.00	0.00

Fitted Residuals						
	qy13	qy14	qy15	qy16	tx1	tx2
qy13	0.00					
qy14	0.00	0.00				
qy15	0.00	0.00	0.00			
qy16	0.00	0.00	0.00	0.00		
tx1	0.00	0.00	-0.01	-0.01	0.00	
tx2	0.00	0.00	0.00	0.00	0.01	0.00
tx3	0.00	0.00	0.00	0.00	0.00	0.00
tx4	0.00	0.00	0.00	0.00	0.01	0.00
px5	0.00	0.00	0.00	0.00	-0.01	0.00
px6	0.00	0.00	0.00	0.00	-0.01	-0.01
px7	0.00	0.00	0.00	0.00	0.00	0.00
px8	0.00	0.00	0.00	0.00	-0.01	-0.01

Fitted Residuals						
	tx3	tx4	px5	px6	px7	px8
tx3	0.00					
tx4	0.00	0.00				
px5	0.01	0.01	0.00			
px6	0.00	0.00	0.00	0.00		
px7	0.01	0.01	0.00	-0.01	-0.01	
px8	0.00	0.01	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 = 0.01

Stemleaf Plot

```

-14|654
-12|710
-10|92031
- 8|5211932
- 6|8887665200098765521110
- 4|9988876443322198877433221110
- 2|9986554221111000099888777555544322111100000
- 0|9998887777665555443332221111000009999988777766555444433220000
0|1111122333444444555555567788889990111122233445555566666777888
2|000122233334466677788901112333445666
4|0144667000157
6|024577
8|391
10|34
12|
14|7
    
```

	Standardized Residuals					
	oy1	oy2	oy3	oy4	ey5	ey6
oy1	-0.62					
oy2	-1.20	-0.61				
oy3	1.00	0.55	2.08			
oy4	-2.02	-1.08	-2.17	-0.45		
ey5	-2.75	-2.45	-1.90	1.46	0.09	
ey6	-0.45	0.66	1.43	-2.72	-1.61	-0.43
ey7	-1.07	-1.39	-0.80	-0.08	-0.96	-1.64
ey8	-1.47	-0.92	-0.69	0.85	-0.55	-0.79
by9	0.53	0.74	0.98	-0.90	-0.56	1.00
by10	0.17	-0.48	1.22	-1.58	-1.18	0.76
by11	0.44	-0.76	0.52	-1.44	-0.58	0.09
by12	0.75	0.05	0.90	-1.31	-0.76	0.21
qy13	0.13	-0.29	-0.22	-0.30	0.88	-0.45
qy14	0.43	-0.58	-0.07	-0.27	-0.37	-0.34
qy15	0.08	-0.62	-0.52	-0.03	0.76	-0.84
qy16	0.48	0.19	-0.09	-0.96	1.00	-0.97
tx1	-0.94	-0.51	-0.58	-2.01	-1.83	-0.46
tx2	-1.72	-0.78	-0.90	-1.36	-0.92	-1.43
tx3	-0.21	1.86	0.09	-0.84	0.57	0.28
tx4	0.01	0.82	0.34	-0.66	-0.50	0.74
px5	-1.40	-0.71	-1.43	0.18	1.79	-1.91
px6	-0.84	0.48	0.21	-1.60	1.45	-0.28
px7	-2.24	-1.31	-1.13	-1.25	1.26	-2.69
px8	0.68	1.12	0.91	-1.62	1.27	0.02

	Standardized Residuals					
	ey7	ey8	by9	by10	by11	by12
ey7	-1.52					
ey8	-1.65	-1.06				
by9	-0.69	-0.31	0.90			
by10	-1.04	-0.82	0.99	0.59		
by11	-0.50	-0.93	0.19	-0.56	-1.77	
by12	-1.07	0.08	0.67	0.41	-0.95	-0.10
qy13	0.31	0.48	-0.43	0.45	0.79	-0.16
qy14	-0.41	0.00	0.18	1.07	1.48	0.05
qy15	0.03	0.47	-0.18	0.10	0.08	-0.26
qy16	-0.22	0.36	0.64	0.98	0.34	-0.25
tx1	-0.45	-1.29	-0.96	-0.86	-1.50	-1.98
tx2	-0.40	-1.42	-0.40	-0.93	-0.33	-1.58
tx3	0.15	0.02	0.71	1.28	0.36	-0.13
tx4	0.14	-0.07	0.63	1.07	0.71	0.22
px5	-1.39	-0.76	0.27	-0.46	-1.65	-0.86
px6	-2.45	-0.52	0.47	-0.09	-2.23	-0.62
px7	-1.61	-1.42	-0.15	-0.73	-1.53	-1.65
px8	-1.23	-0.67	1.73	2.09	-0.33	0.31

	Standardized Residuals					
	qy13	qy14	qy15	qy16	tx1	tx2
qy13	1.12					
qy14	1.35	1.13				
qy15	0.98	0.96	0.72			
qy16	0.81	0.98	0.46	0.26		
tx1	-0.61	-1.22	-1.84	-2.35	0.40	
tx2	0.00	-0.43	-0.59	-0.91	1.83	1.01
tx3	0.34	-0.71	-0.10	-0.16	-0.38	1.35
tx4	0.34	-0.15	0.10	0.04	1.95	-0.19
px5	0.84	0.33	0.10	0.32	-2.07	-0.19
px6	-0.49	-0.35	-0.43	-0.99	-1.98	-2.33
px7	-0.21	-0.34	-0.25	-0.70	-0.10	-0.88
px8	0.91	0.92	0.11	0.13	-1.07	-1.14

	Standardized Residuals					
	tx3	tx4	px5	px6	px7	px8
tx3	0.58					
tx4	0.00	0.59				
px5	1.49	1.28	1.02			
px6	0.98	1.12	-0.42	-1.40		
px7	0.94	1.61	0.46	-2.06	-2.49	
px8	0.55	1.26	-0.63	0.21	-1.68	0.30



## Summary Statistics for Standardized Residuals

Smallest Standardized Residual = -2.75  
 Median Standardized Residual = -0.21  
 Largest Standardized Residual = 1.98

## Stemleaf Plot

```

-26|529
-24|955
-22|5343
-20|77621
-18|881043
-16|72855542110
-14|8832074332200
-12|9961195320
-10|843877764
- 8|9766654332210086644420
- 6|9866631109976322211
- 4|988866522100986655533332100
- 2|8754433109876552211
- 0|99866553000998773000
  0|12234558889990001334578899
  2|111267801123444466
  4|01345667788823557899
  6|34678112445669
  8|124580011246888889
 10|00012772223
 12|26678855
 14|35689
 16|139
 18|365
 20|89

```

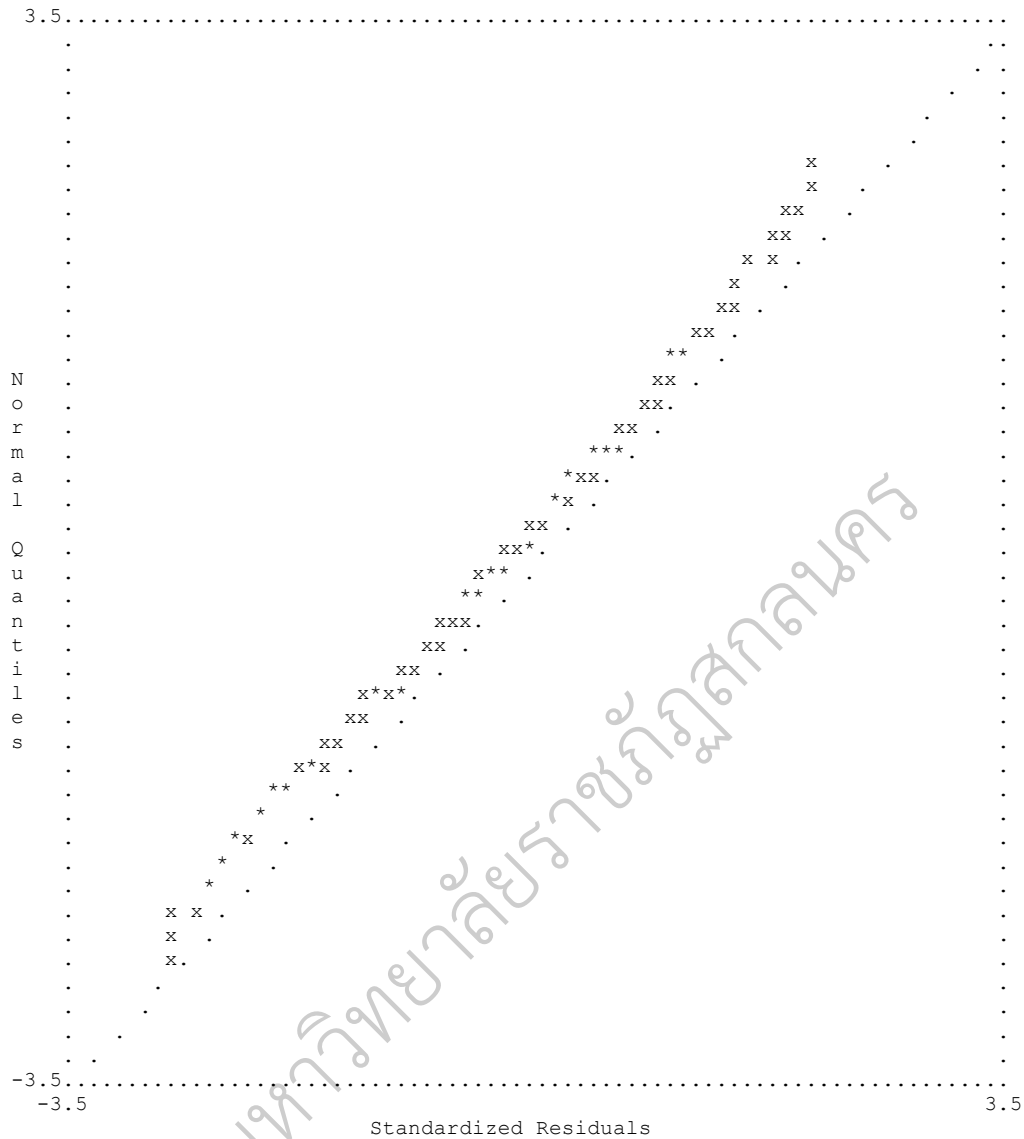
## Largest Negative Standardized Residuals

Residual for	ey5 and	oy1	-2.75
Residual for	ey6 and	oy4	-2.72
Residual for	px7 and	ey6	-2.69

TI QUA

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

Qplot of Standardized Residuals



TI QUA

Modification Indices and Expected Change

	Modification Indices for LAMBDA-Y			
	OR	ED	BE	QUA
oy1	- -	3.06	2.46	1.84
oy2	- -	2.25	0.78	0.66
oy3	- -	0.41	0.18	0.32
oy4	- -	0.05	0.51	0.07
ey5	1.75	- -	0.70	0.00
ey6	0.51	- -	0.10	0.26
ey7	0.20	- -	0.11	0.02
ey8	0.42	- -	1.02	0.69
by9	0.51	0.09	- -	1.51
by10	1.19	0.34	- -	0.05
by11	0.41	0.28	- -	1.11
by12	0.05	0.09	- -	0.21
qy13	0.04	1.83	0.45	- -
qy14	0.79	1.00	0.05	- -
qy15	0.09	0.17	0.02	- -
qy16	0.42	0.65	0.47	- -

## Expected Change for LAMBDA-Y

	OR	ED	BE	QUA
	-----	-----	-----	-----
oy1	- -	-0.08	0.08	0.03
oy2	- -	0.10	-0.07	-0.03
oy3	- -	0.06	-0.02	-0.01
oy4	- -	-0.10	-0.10	-0.01
ey5	-0.03	- -	-0.03	0.00
ey6	0.04	- -	0.01	-0.01
ey7	0.01	- -	-0.01	0.00
ey8	0.02	- -	0.04	0.03
by9	0.07	0.01	- -	-0.05
by10	-0.05	0.02	- -	0.01
by11	0.03	-0.02	- -	0.03
by12	0.02	-0.01	- -	-0.01
qy13	0.01	0.05	-0.07	- -
qy14	-0.02	-0.02	-0.01	- -
qy15	0.01	0.01	0.00	- -
qy16	0.02	-0.15	0.06	- -

## Standardized Expected Change for LAMBDA-Y

	OR	ED	BE	QUA
	-----	-----	-----	-----
oy1	- -	-0.08	0.08	0.03
oy2	- -	0.10	-0.07	-0.03
oy3	- -	0.06	-0.02	-0.01
oy4	- -	-0.10	-0.10	-0.01
ey5	-0.03	- -	-0.03	0.00
ey6	0.04	- -	0.01	-0.01
ey7	0.01	- -	-0.01	0.00
ey8	0.02	- -	0.04	0.03
by9	0.07	0.01	- -	-0.05
by10	-0.05	0.02	- -	0.01
by11	0.03	-0.02	- -	0.03
by12	0.02	-0.01	- -	-0.01
qy13	0.01	0.05	-0.07	- -
qy14	-0.02	-0.02	-0.01	- -
qy15	0.01	0.01	0.00	- -
qy16	0.02	-0.15	0.06	- -

## Completely Standardized Expected Change for LAMBDA-Y

	OR	ED	BE	QUA
	-----	-----	-----	-----
oy1	- -	-0.15	0.17	0.06
oy2	- -	0.18	-0.13	-0.05
oy3	- -	0.11	-0.05	-0.02
oy4	- -	-0.12	-0.12	-0.02
ey5	-0.06	- -	-0.05	0.00
ey6	0.09	- -	0.02	-0.02
ey7	0.03	- -	-0.02	-0.01
ey8	0.03	- -	0.07	0.04
by9	0.13	0.02	- -	-0.10
by10	-0.10	0.04	- -	0.01
by11	0.06	-0.03	- -	0.05
by12	0.04	-0.02	- -	-0.02
qy13	0.02	0.11	-0.16	- -
qy14	-0.04	-0.05	-0.01	- -
qy15	0.01	0.02	0.01	- -
qy16	0.04	-0.31	0.12	- -

## Modification Indices for LAMBDA-X

	TRA	PAR
	-----	-----
tx1	- -	3.83
tx2	- -	3.35
tx3	- -	4.03
tx4	- -	3.18
px5	0.01	- -
px6	1.95	- -
px7	2.05	- -
px8	0.01	- -

## Expected Change for LAMBDA-X

	TRA	PAR
tx1	- -	-0.04
tx2	- -	-0.04
tx3	- -	0.04
tx4	- -	0.05
px5	0.00	- -
px6	-0.03	- -
px7	0.03	- -
px8	0.00	- -

## Standardized Expected Change for LAMBDA-X

	TRA	PAR
tx1	- -	-0.04
tx2	- -	-0.04
tx3	- -	0.04
tx4	- -	0.05
px5	0.00	- -
px6	-0.03	- -
px7	0.03	- -
px8	0.00	- -

## Completely Standardized Expected Change for LAMBDA-X

	TRA	PAR
tx1	- -	-0.07
tx2	- -	-0.06
tx3	- -	0.06
tx4	- -	0.07
px5	0.00	- -
px6	-0.06	- -
px7	0.05	- -
px8	0.00	- -

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

	oy1	oy2	oy3	oy4	ey5	ey6
oy1	- -	- -	- -	- -	- -	- -
oy2	- -	- -	- -	- -	- -	- -
oy3	- -	- -	- -	- -	- -	- -
oy4	- -	- -	- -	- -	- -	- -
ey5	- -	1.68	0.07	0.46	- -	- -
ey6	- -	- -	- -	- -	0.19	- -
ey7	0.43	- -	0.01	0.12	- -	- -
ey8	0.71	0.35	0.06	0.27	- -	0.19
by9	- -	- -	- -	- -	0.01	- -
by10	- -	1.44	- -	- -	0.02	- -
by11	1.44	- -	- -	- -	- -	0.81
by12	- -	- -	- -	- -	- -	- -
qy13	- -	- -	0.03	- -	0.50	- -
qy14	- -	0.56	- -	0.03	0.25	0.03
qy15	0.24	- -	0.22	- -	- -	- -
qy16	0.53	- -	- -	- -	- -	0.71

## Modification Indices for THETA-EPS

	ey7	ey8	by9	by10	by11	by12
ey7	- -	- -	- -	- -	- -	- -
ey8	- -	- -	- -	- -	- -	- -
by9	- -	- -	- -	- -	- -	- -
by10	0.71	- -	0.24	- -	- -	- -
by11	- -	- -	- -	1.06	- -	- -
by12	- -	0.31	- -	0.44	- -	- -
qy13	- -	- -	1.60	- -	- -	- -
qy14	- -	- -	- -	0.00	1.60	0.15
qy15	- -	0.27	- -	- -	0.06	0.00
qy16	0.04	- -	- -	- -	- -	- -

## Modification Indices for THETA-EPS

	qy13	qy14	qy15	qy16
	-----	-----	-----	-----
qy13	- -			
qy14	0.02	- -		
qy15	0.02	- -	- -	
qy16	- -	- -	- -	- -

## Expected Change for THETA-EPS

	oy1	oy2	oy3	oy4	ey5	ey6
	-----	-----	-----	-----	-----	-----
oy1	- -					
oy2	- -	- -				
oy3	- -	- -	- -			
oy4	- -	- -	- -	- -		
ey5	- -	-0.01	0.00	0.01	- -	
ey6	- -	- -	- -	- -	0.00	- -
ey7	0.00	- -	0.00	0.00	- -	- -
ey8	0.00	0.00	0.00	0.01	- -	0.00
by9	- -	- -	- -	- -	0.00	- -
by10	- -	-0.01	- -	- -	0.00	- -
by11	0.01	- -	- -	- -	- -	0.01
by12	- -	- -	- -	- -	- -	- -
qy13	- -	- -	0.00	- -	0.00	- -
qy14	- -	0.00	- -	0.00	0.00	0.00
qy15	0.00	- -	0.00	- -	- -	- -
qy16	0.00	- -	- -	- -	- -	0.00

## Expected Change for THETA-EPS

	ey7	ey8	by9	by10	by11	by12
	-----	-----	-----	-----	-----	-----
ey7	- -					
ey8	- -	- -				
by9	- -	- -	- -			
by10	0.00	- -	0.00	- -		
by11	- -	- -	- -	-0.01	- -	
by12	- -	0.00	- -	0.00	- -	- -
qy13	- -	- -	-0.01	- -	- -	- -
qy14	- -	- -	- -	0.00	0.00	0.00
qy15	- -	0.00	- -	- -	0.00	0.00
qy16	0.00	- -	- -	- -	- -	- -

## Expected Change for THETA-EPS

	qy13	qy14	qy15	qy16
	-----	-----	-----	-----
qy13	- -			
qy14	0.00	- -		
qy15	0.00	- -	- -	
qy16	- -	- -	- -	- -

## Completely Standardized Expected Change for THETA-EPS

	oy1	oy2	oy3	oy4	ey5	ey6
	-----	-----	-----	-----	-----	-----
oy1	- -					
oy2	- -	- -				
oy3	- -	- -	- -			
oy4	- -	- -	- -	- -		
ey5	- -	-0.02	0.00	0.02	- -	
ey6	- -	- -	- -	- -	-0.01	- -
ey7	0.01	- -	0.00	0.01	- -	- -
ey8	-0.01	0.01	0.00	0.01	- -	0.01
by9	- -	- -	- -	- -	0.00	- -
by10	- -	-0.04	- -	- -	0.00	- -
by11	0.03	- -	- -	- -	- -	0.02
by12	- -	- -	- -	- -	- -	- -
qy13	- -	- -	0.00	- -	0.01	- -
qy14	- -	-0.02	- -	-0.01	-0.01	0.00
qy15	0.01	- -	-0.01	- -	- -	- -
qy16	0.01	- -	- -	- -	- -	-0.02



## Expected Change for THETA-DELTA-EPS

	ey7	ey8	by9	by10	by11	by12
tx1	0.00	-0.01	- -	- -	-0.01	- -
tx2	- -	- -	0.00	0.00	0.01	- -
tx3	0.00	- -	- -	- -	- -	0.00
tx4	- -	- -	- -	0.00	- -	- -
px5	- -	-0.01	0.00	0.00	- -	- -
px6	- -	- -	- -	0.00	- -	- -
px7	0.00	- -	- -	- -	-0.01	- -
px8	0.00	- -	- -	0.01	- -	0.00

## Expected Change for THETA-DELTA-EPS

	qy13	qy14	qy15	qy16
tx1	- -	- -	- -	- -
tx2	- -	0.00	- -	0.00
tx3	0.00	0.00	- -	- -
tx4	0.00	- -	- -	- -
px5	0.00	- -	- -	- -
px6	- -	- -	- -	0.00
px7	0.00	0.00	0.00	0.00
px8	- -	- -	- -	- -

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

	oy1	oy2	oy3	oy4	ey5	ey6
tx1	- -	- -	- -	- -	- -	- -
tx2	-0.02	- -	0.00	-0.04	- -	-0.01
tx3	- -	0.03	- -	- -	- -	- -
tx4	- -	-0.01	- -	- -	- -	0.02
px5	-0.01	0.01	- -	- -	- -	- -
px6	- -	0.01	- -	- -	0.04	0.02
px7	- -	-0.01	0.01	- -	- -	-0.03
px8	- -	- -	- -	- -	- -	0.01

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

	ey7	ey8	by9	by10	by11	by12
tx1	0.01	-0.02	- -	- -	-0.02	- -
tx2	- -	- -	0.00	0.00	0.01	- -
tx3	-0.01	- -	- -	- -	- -	-0.01
tx4	- -	- -	- -	0.01	- -	- -
px5	- -	-0.02	0.00	-0.01	- -	- -
px6	- -	- -	- -	-0.01	- -	- -
px7	0.00	- -	- -	- -	-0.02	- -
px8	-0.01	- -	- -	0.03	- -	0.00

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

	qy13	qy14	qy15	qy16
tx1	- -	- -	- -	- -
tx2	- -	0.01	- -	0.00
tx3	0.01	-0.01	- -	- -
tx4	0.00	- -	- -	- -
px5	0.01	- -	- -	- -
px6	- -	- -	- -	-0.01
px7	-0.01	0.00	0.00	0.00
px8	- -	- -	- -	- -

## Modification Indices for THETA-DELTA

	tx1	tx2	tx3	tx4	px5	px6
tx1	- -	- -	- -	- -	- -	- -
tx2	2.45	- -	- -	- -	- -	- -
tx3	4.31	2.47	- -	- -	- -	- -
tx4	4.25	4.09	1.59	- -	- -	- -
px5	4.51	0.32	2.14	- -	- -	- -
px6	0.43	3.19	1.14	- -	- -	- -
px7	3.92	- -	0.67	0.25	1.66	0.14
px8	0.54	- -	0.02	0.19	1.65	0.09

Modification Indices for THETA-DELTA

	px7	px8
px7	- -	
px8	- -	- -

Expected Change for THETA-DELTA

	tx1	tx2	tx3	tx4	px5	px6
tx1	- -					
tx2	0.01	- -				
tx3	-0.01	0.01	- -			
tx4	0.01	-0.01	-0.01	- -		
px5	-0.01	0.00	0.01	- -	- -	
px6	0.00	-0.01	0.00	- -	- -	- -
px7	0.01	- -	0.00	0.00	0.01	0.00
px8	0.00	- -	0.00	0.00	-0.01	0.00

Expected Change for THETA-DELTA

	px7	px8
px7	- -	
px8	- -	- -

Completely Standardized Expected Change for THETA-DELTA

	tx1	tx2	tx3	tx4	px5	px6
tx1	- -					
tx2	0.02	- -				
tx3	-0.02	0.02	- -			
tx4	0.02	-0.02	-0.02	- -		
px5	-0.02	0.01	0.02	- -	- -	
px6	-0.01	-0.02	0.01	- -	- -	- -
px7	0.02	- -	-0.01	0.01	0.02	0.00
px8	-0.01	- -	0.00	0.00	-0.02	0.00

Completely Standardized Expected Change for THETA-DELTA

	px7	px8
px7	- -	
px8	- -	- -

Maximum Modification Index is 5.11 for Element ( 8,10) of THETA DELTA-EPSILON

Factor Scores Regressions

ETA

	oy1	oy2	oy3	oy4	ey5	ey6
OR	0.42	1.79	0.00	0.78	-0.09	-0.46
ED	-0.15	0.57	-0.10	0.15	-0.01	0.18
BE	-0.16	0.76	-0.41	0.33	-0.06	-0.11
QUA	-0.47	0.40	-0.17	-0.12	0.05	0.17

ETA

	ey7	ey8	by9	by10	by11	by12
OR	0.25	-0.01	0.32	0.11	0.36	-0.48
ED	0.44	0.07	0.16	0.04	0.22	-0.40
BE	-0.04	0.03	0.64	0.68	0.44	0.03
QUA	-0.20	0.25	0.14	0.24	0.01	-0.34

ETA

	qy13	qy14	qy15	qy16	tx1	tx2
OR	-0.11	-0.42	-0.18	0.29	-0.39	-0.04
ED	0.05	-0.11	-0.09	0.26	-0.05	-0.19
BE	-0.19	-0.13	0.10	0.48	-0.04	-0.18
QUA	0.72	0.64	-0.12	1.60	0.37	-0.41



ETA	tx3	tx4	px5	px6	px7	px8
OR	0.09	0.27	-0.27	-0.01	-0.25	-0.08
ED	0.04	0.30	0.19	0.62	0.04	-0.10
BE	0.09	0.25	-0.40	-0.01	0.06	-0.08
QUA	-0.11	0.18	-0.26	0.15	0.25	-0.54

KSI	oy1	oy2	oy3	oy4	ey5	ey6
TRA	0.03	0.12	-0.36	0.08	-0.35	0.03
PAR	-0.29	0.13	-0.04	-0.06	-0.09	0.19

KSI	ey7	ey8	by9	by10	by11	by12
TRA	0.05	0.19	-0.05	0.16	0.25	-0.05
PAR	0.34	-0.06	0.20	-0.01	0.08	-0.25

KSI	qy13	qy14	qy15	qy16	tx1	tx2
TRA	-0.28	-0.10	0.24	0.09	0.29	0.23
PAR	0.06	0.03	-0.02	0.03	0.01	-0.17

KSI	tx3	tx4	px5	px6	px7	px8
TRA	0.59	0.53	-0.07	0.10	-0.11	0.01
PAR	-0.05	0.19	0.49	0.95	0.23	-0.01

TI QUA

Standardized Solution

LAMBDA-Y	OR	ED	BE	QUA
oy1	0.36	-	-	-
oy2	0.54	-	-	-
oy3	0.30	-	-	-
oy4	0.57	-	-	-
ey5	-	0.36	-	-
ey6	-	0.32	-	-
ey7	-	0.37	-	-
ey8	-	0.36	-	-
by9	-	-	0.45	-
by10	-	-	0.43	-
by11	-	-	0.44	-
by12	-	-	0.41	-
qy13	-	-	-	0.37
qy14	-	-	-	0.39
qy15	-	-	-	0.40
qy16	-	-	-	0.47

LAMBDA-X	TRA	PAR
tx1	0.53	-
tx2	0.58	-
tx3	0.55	-
tx4	0.62	-
px5	-	0.49
px6	-	0.55
px7	-	0.56
px8	-	0.49

BETA	OR	ED	BE	QUA
OR	-	-	-	-
ED	0.27	-	-	-
BE	0.56	-0.02	-	-
QUA	-0.30	0.32	0.84	-

GAMMA

	TRA	PAR
OR	0.24	0.48
ED	0.12	0.67
BE	0.14	0.28
QUA	-0.08	-0.03

Correlation Matrix of ETA and KSI

	OR	ED	BE	QUA	TRA	PAR
OR	1.00					
ED	0.78	1.00				
BE	0.80	0.78	1.00			
QUA	0.55	0.64	0.77	1.00		
TRA	0.59	0.78	0.66	0.52	1.00	
PAR	0.66	0.93	0.73	0.62	0.74	1.00

PSI

Note: This matrix is diagonal.

	OR	ED	BE	QUA
	0.54	0.07	0.28	0.38

Regression Matrix ETA on KSI (Standardized)

	TRA	PAR
OR	0.24	0.48
ED	0.18	0.80
BE	0.26	0.53
QUA	0.13	0.52

TI QUA

Completely Standardized Solution

LAMBDA-Y

	OR	ED	BE	QUA
oy1	0.72	-	-	-
oy2	0.98	-	-	-
oy3	0.59	-	-	-
oy4	0.68	-	-	-
ey5	-	0.64	-	-
ey6	-	0.61	-	-
ey7	-	0.72	-	-
ey8	-	0.62	-	-
by9	-	-	0.85	-
by10	-	-	0.85	-
by11	-	-	0.83	-
by12	-	-	0.81	-
qy13	-	-	-	0.83
qy14	-	-	-	0.88
qy15	-	-	-	0.79
qy16	-	-	-	0.96

LAMBDA-X

	TRA	PAR
tx1	0.88	-
tx2	0.87	-
tx3	0.91	-
tx4	0.88	-
px5	-	0.87
px6	-	0.94
px7	-	0.86
px8	-	0.82

BETA

	OR	ED	BE	QUA
OR	-	-	-	-
ED	0.27	-	-	-
BE	0.56	-0.02	-	-
QUA	-0.30	0.32	0.84	-

GAMMA		
	TRA	PAR
OR	0.24	0.48
ED	0.12	0.67
BE	0.14	0.28
QUA	-0.08	-0.03

## Correlation Matrix of ETA and KSI

	OR	ED	BE	QUA	TRA	PAR
OR	1.00					
ED	0.78	1.00				
BE	0.80	0.78	1.00			
QUA	0.55	0.64	0.77	1.00		
TRA	0.59	0.78	0.66	0.52	1.00	
PAR	0.66	0.93	0.73	0.62	0.74	1.00

## PSI

Note: This matrix is diagonal.

	OR	ED	BE	QUA
	0.54	0.07	0.28	0.38

## THETA-EPS

	oy1	oy2	oy3	oy4	ey5	ey6
oy1	0.48					
oy2	-	0.05				
oy3	0.34	0.06	0.66			
oy4	-0.34	-0.43	-0.32	0.54		
ey5	0.04	-	-	-	0.59	
ey6	0.30	0.10	0.36	-0.06	-	0.62
ey7	-	-0.07	-	-	0.05	0.04
ey8	-	-	-	-	0.18	-
by9	0.04	-0.08	0.11	-0.22	-	0.04
by10	0.17	-	0.20	-0.28	-	0.10
by11	-	-0.11	0.07	-0.09	-0.04	-
by12	0.09	-0.02	0.17	-0.05	0.03	0.16
qy13	0.02	-0.08	-	0.08	-	-0.04
qy14	0.04	-	0.09	-	-	-
qy15	-	-0.04	-	0.13	0.06	0.00
qy16	-	-0.11	-0.02	0.09	-0.05	-

## THETA-EPS

	ey7	ey8	by9	by10	by11	by12
ey7	0.47					
ey8	0.08	0.61				
by9	0.02	0.01	0.27			
by10	-	-0.01	-	0.28		
by11	0.04	-0.07	-0.07	-	0.32	
by12	0.06	-	-0.03	-	0.08	0.35
qy13	0.10	-0.05	-	-0.01	0.08	0.02
qy14	0.11	-0.03	-0.01	-	-	-
qy15	0.04	-	-0.13	-0.09	-	-
qy16	-	-0.10	-0.12	-0.11	-0.04	0.00

## THETA-EPS

	qy13	qy14	qy15	qy16
qy13	0.31			
qy14	-	0.22		
qy15	-	-0.02	0.38	
qy16	-0.16	-0.17	-0.01	0.09

## THETA-DELTA-EPS

	oy1	oy2	oy3	oy4	ey5	ey6
tx1	0.09	0.05	0.13	-0.06	0.05	0.07
tx2	- -	-0.04	- -	- -	0.09	- -
tx3	0.02	- -	0.09	-0.05	0.07	0.04
tx4	0.05	- -	0.07	-0.10	0.13	- -
px5	- -	- -	-0.02	0.05	0.09	-0.05
px6	0.05	- -	0.03	0.03	- -	- -
px7	0.09	- -	- -	0.09	0.05	- -
px8	0.04	0.03	0.04	0.04	0.01	- -

## THETA-DELTA-EPS

	ey7	ey8	by9	by10	by11	by12
tx1	- -	- -	0.00	0.00	- -	0.01
tx2	0.10	-0.01	- -	- -	- -	-0.03
tx3	- -	-0.04	0.02	-0.03	-0.06	- -
tx4	-0.06	-0.05	0.03	- -	-0.10	-0.04
px5	-0.04	- -	- -	- -	0.03	0.03
px6	-0.09	0.02	-0.06	- -	-0.01	0.03
px7	- -	0.09	-0.06	-0.01	- -	0.01
px8	- -	0.08	-0.05	- -	0.00	- -

## THETA-DELTA-EPS

	qy13	qy14	qy15	qy16
tx1	-0.03	-0.03	-0.06	-0.08
tx2	0.08	- -	-0.01	- -
tx3	- -	- -	-0.07	-0.03
tx4	- -	0.02	-0.07	-0.09
px5	- -	-0.02	0.06	0.04
px6	-0.04	-0.06	-0.02	- -
px7	- -	- -	- -	- -
px8	0.04	0.06	0.05	0.04

## THETA-DELTA

	tx1	tx2	tx3	tx4	px5	px6
tx1	0.23	- -	- -	- -	- -	- -
tx2	- -	0.24	- -	- -	- -	- -
tx3	- -	- -	0.18	- -	- -	- -
tx4	- -	- -	- -	0.23	- -	- -
px5	- -	- -	- -	0.02	0.24	- -
px6	- -	- -	- -	-0.05	-0.08	0.13
px7	- -	0.04	- -	- -	- -	- -
px8	- -	-0.03	- -	- -	- -	- -

## THETA-DELTA

	px7	px8
px7	0.26	- -
px8	0.10	0.32

## Regression Matrix ETA on KSI (Standardized)

	TRA	PAR
OR	0.24	0.48
ED	0.18	0.80
BE	0.26	0.53
QUA	0.13	0.52

## TI QUA

## Total and Indirect Effects

## Total Effects of KSI on ETA

	TRA	PAR
OR	0.24	0.48
	(0.04)	(0.05)
	5.35	9.36

ED	0.18 (0.05) 3.49	0.80 (0.06) 13.08
BE	0.26 (0.05) 5.55	0.53 (0.05) 10.93
QUA	0.13 (0.05) 2.75	0.52 (0.05) 9.85

## Indirect Effects of KSI on ETA

	TRA -----	PAR -----
OR	- -	- -
ED	0.06 (0.02) 3.74	0.13 (0.02) 5.71
BE	0.13 (0.04) 3.10	0.25 (0.19) 1.34
QUA	0.21 (0.06) 3.43	0.55 (0.25) 2.23

## Total Effects of ETA on ETA

	OR -----	ED -----	BE -----	QUA -----
OR	- -	- -	- -	- -
ED	0.27 (0.04) 6.31	- -	- -	- -
BE	0.55 (0.04) 12.61	-0.02 (0.28) -0.09	- -	- -
QUA	0.25 (0.04) 6.09	0.30 (0.34) 0.87	0.84 (0.09) 9.58	- -

Largest Eigenvalue of  $B \cdot B'$  (Stability Index) is 0.965

## Indirect Effects of ETA on ETA

	OR -----	ED -----	BE -----	QUA -----
OR	- -	- -	- -	- -
ED	- -	- -	- -	- -
BE	-0.01 (0.07) -0.09	- -	- -	- -
QUA	0.55 (0.12) 4.44	-0.02 (0.23) -0.09	- -	- -

## Total Effects of ETA on Y

	OR -----	ED -----	BE -----	QUA -----
oy1	0.36	- -	- -	- -
oy2	0.54 (0.03) 20.13	- -	- -	- -
oy3	0.30 (0.02) 16.82	- -	- -	- -

oy4	0.57 (0.06) 10.30	--	--	--
ey5	0.10 (0.02) 6.31	0.36	--	--
ey6	0.09 (0.01) 6.07	0.32 (0.02) 14.63	--	--
ey7	0.10 (0.02) 6.24	0.37 (0.02) 17.32	--	--
ey8	0.10 (0.02) 6.25	0.36 (0.02) 17.31	--	--
by9	0.25 (0.02) 12.61	-0.01 (0.12) -0.09	0.45	--
by10	0.23 (0.02) 13.86	-0.01 (0.12) -0.09	0.43 (0.02) 25.90	--
by11	0.24 (0.02) 12.52	-0.01 (0.12) -0.09	0.44 (0.02) 24.14	--
by12	0.23 (0.02) 12.45	-0.01 (0.11) -0.09	0.41 (0.02) 24.59	--
qy13	0.09 (0.01) 6.09	0.11 (0.13) 0.87	0.31 (0.03) 9.58	0.37
qy14	0.09 (0.02) 6.21	0.11 (0.13) 0.87	0.32 (0.03) 10.02	0.39 (0.02) 22.19
qy15	0.10 (0.02) 6.11	0.12 (0.14) 0.87	0.34 (0.03) 9.65	0.40 (0.02) 18.90
qy16	0.11 (0.02) 6.07	0.14 (0.16) 0.87	0.39 (0.04) 9.08	0.47 (0.03) 17.69

## Indirect Effects of ETA on Y

	OR	ED	BE	QUA
oy1	--	--	--	--
oy2	--	--	--	--
oy3	--	--	--	--
oy4	--	--	--	--
ey5	0.10 (0.02) 6.31	--	--	--
ey6	0.09 (0.01) 6.07	--	--	--
ey7	0.10 (0.02) 6.24	--	--	--
ey8	0.10 (0.02) 6.25	--	--	--

by9	0.25 (0.02) 12.61	-0.01 (0.12) -0.09	- -	- -
by10	0.23 (0.02) 13.86	-0.01 (0.12) -0.09	- -	- -
by11	0.24 (0.02) 12.52	-0.01 (0.12) -0.09	- -	- -
by12	0.23 (0.02) 12.45	-0.01 (0.11) -0.09	- -	- -
qy13	0.09 (0.01) 6.09	0.11 (0.13) 0.87	0.31 (0.03) 9.58	- -
qy14	0.09 (0.02) 6.21	0.11 (0.13) 0.87	0.32 (0.03) 10.02	- -
qy15	0.10 (0.02) 6.11	0.12 (0.14) 0.87	0.34 (0.03) 9.65	- -
qy16	0.11 (0.02) 6.07	0.14 (0.16) 0.87	0.39 (0.04) 9.08	- -

## Total Effects of KSI on Y

	TRA -----	PAR -----
oy1	0.09 (0.02) 5.35	0.18 (0.02) 9.36
oy2	0.13 (0.02) 5.47	0.26 (0.02) 10.67
oy3	0.07 (0.01) 5.10	0.14 (0.02) 8.48
oy4	0.13 (0.02) 5.40	0.27 (0.03) 8.55
ey5	0.07 (0.02) 3.49	0.28 (0.02) 13.08
ey6	0.06 (0.02) 3.50	0.26 (0.02) 12.63
ey7	0.07 (0.02) 3.55	0.30 (0.02) 13.52
ey8	0.07 (0.02) 3.52	0.29 (0.02) 12.37
by9	0.12 (0.02) 5.55	0.24 (0.02) 10.93
by10	0.11 (0.02) 5.60	0.23 (0.02) 10.70
by11	0.12 (0.02) 5.66	0.23 (0.02) 10.45

by12	0.11 (0.02) 5.66	0.22 (0.02) 10.33
qy13	0.05 (0.02) 2.75	0.19 (0.02) 9.85
qy14	0.05 (0.02) 2.77	0.20 (0.02) 9.94
qy15	0.05 (0.02) 2.79	0.21 (0.02) 9.44
qy16	0.06 (0.02) 2.77	0.24 (0.02) 10.35

TI QUA

## Standardized Total and Indirect Effects

Standardized Total Effects of KSI on ETA				
	TRA	PAR		
	-----	-----		
OR	0.24	0.48		
ED	0.18	0.80		
BE	0.26	0.53		
QUA	0.13	0.52		
Standardized Indirect Effects of KSI on ETA				
	TRA	PAR		
	-----	-----		
OR	- -	- -		
ED	0.06	0.13		
BE	0.13	0.25		
QUA	0.21	0.55		
Standardized Total Effects of ETA on ETA				
	OR	ED	BE	QUA
	-----	-----	-----	-----
OR	- -	- -	- -	- -
ED	0.27	- -	- -	- -
BE	0.55	-0.02	- -	- -
QUA	0.25	0.30	0.84	- -
Standardized Indirect Effects of ETA on ETA				
	OR	ED	BE	QUA
	-----	-----	-----	-----
OR	- -	- -	- -	- -
ED	- -	- -	- -	- -
BE	-0.01	- -	- -	- -
QUA	0.55	-0.02	- -	- -
Standardized Total Effects of ETA on Y				
	OR	ED	BE	QUA
	-----	-----	-----	-----
oy1	0.36	- -	- -	- -
oy2	0.54	- -	- -	- -
oy3	0.30	- -	- -	- -
oy4	0.57	- -	- -	- -
ey5	0.10	0.36	- -	- -
ey6	0.09	0.32	- -	- -
ey7	0.10	0.37	- -	- -
ey8	0.10	0.36	- -	- -
by9	0.25	-0.01	0.45	- -
by10	0.23	-0.01	0.43	- -
by11	0.24	-0.01	0.44	- -
by12	0.23	-0.01	0.41	- -
qy13	0.09	0.11	0.31	0.37
qy14	0.09	0.11	0.32	0.39
qy15	0.10	0.12	0.34	0.40
qy16	0.11	0.14	0.39	0.47



## Completely Standardized Total Effects of ETA on Y

	OR	ED	BE	QUA
oy1	0.72	--	--	--
oy2	0.98	--	--	--
oy3	0.59	--	--	--
oy4	0.68	--	--	--
ey5	0.17	0.64	--	--
ey6	0.17	0.61	--	--
ey7	0.20	0.72	--	--
ey8	0.17	0.62	--	--
by9	0.47	-0.02	0.85	--
by10	0.47	-0.02	0.85	--
by11	0.45	-0.02	0.83	--
by12	0.44	-0.02	0.81	--
qy13	0.20	0.25	0.70	0.83
qy14	0.22	0.26	0.74	0.88
qy15	0.19	0.23	0.66	0.79
qy16	0.23	0.28	0.80	0.96

## Standardized Indirect Effects of ETA on Y

	OR	ED	BE	QUA
oy1	--	--	--	--
oy2	--	--	--	--
oy3	--	--	--	--
oy4	--	--	--	--
ey5	0.10	--	--	--
ey6	0.09	--	--	--
ey7	0.10	--	--	--
ey8	0.10	--	--	--
by9	0.25	-0.01	--	--
by10	0.23	-0.01	--	--
by11	0.24	-0.01	--	--
by12	0.23	-0.01	--	--
qy13	0.09	0.11	0.31	--
qy14	0.09	0.11	0.32	--
qy15	0.10	0.12	0.34	--
qy16	0.11	0.14	0.39	--

## Completely Standardized Indirect Effects of ETA on Y

	OR	ED	BE	QUA
oy1	--	--	--	--
oy2	--	--	--	--
oy3	--	--	--	--
oy4	--	--	--	--
ey5	0.17	--	--	--
ey6	0.17	--	--	--
ey7	0.20	--	--	--
ey8	0.17	--	--	--
by9	0.47	-0.02	--	--
by10	0.47	-0.02	--	--
by11	0.45	-0.02	--	--
by12	0.44	-0.02	--	--
qy13	0.20	0.25	0.70	--
qy14	0.22	0.26	0.74	--
qy15	0.19	0.23	0.66	--
qy16	0.23	0.28	0.80	--

## Standardized Total Effects of KSI on Y

	TRA	PAR
oy1	0.09	0.18
oy2	0.13	0.26
oy3	0.07	0.14
oy4	0.13	0.27
ey5	0.07	0.28
ey6	0.06	0.26
ey7	0.07	0.30
ey8	0.07	0.29
by9	0.12	0.24
by10	0.11	0.23
by11	0.12	0.23

by12	0.11	0.22
qy13	0.05	0.19
qy14	0.05	0.20
qy15	0.05	0.21
qy16	0.06	0.24

## Completely Standardized Total Effects of KSI on Y

	TRA	PAR
	-----	-----
oy1	0.17	0.35
oy2	0.23	0.47
oy3	0.14	0.28
oy4	0.16	0.33
ey5	0.12	0.51
ey6	0.11	0.49
ey7	0.13	0.58
ey8	0.11	0.50
by9	0.22	0.45
by10	0.22	0.45
by11	0.22	0.44
by12	0.21	0.43
qy13	0.11	0.43
qy14	0.12	0.46
qy15	0.10	0.41
qy16	0.13	0.49

Time used: 0.297 Seconds

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี