

ภาคผนวก จ

ผลการวิเคราะห์ข้อมูล

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

L I S R E L 8.52

BY

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TI  
DA NI=18 NO=600 NG=1 MA=CM  
SE  
8 9 10 11 12 13 14 15 16 17 18 1 2 3 4 5 6 7 /  
MO NX=7 NY=11 NK=2 NE=3 LY=FU,FI LX=FU,FI BE=FU,FI GA=FU,FI PH=SY,FR  
PS=DI,FR TE=SY,FI TD=SY,FI  
LE  
E1 E2 E3  
LK  
K1 K2  
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)LX(1,1)LX(2,1)LX(3,1)LX(4,1)LX(5,2)LX(6,2)LX(7,2)  
FR BE(3,1)BE(3,2)GA(1,1)GA(1,2)GA(2,1)GA(2,2)GA(3,1)GA(3,2)  
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 TE 11 11  
FR TD 1 1 TD 2 2 TD 3 3 TD 4 4 TD 5 5 TD 6 6 TD 7 7 TE 7 6 TE 10  
9 TE 5 4 TD 4 3  
FR TE 4 3 TH 1 11 TD 7 1 TH 4 7 TD 5 4 TE 7 1 TH 2 5 TE 10 8 TE 9  
8 TE 5 3 TE 11 3  
FR TD 5 2 TH 5 5 TH 5 10 TH 6 10 TH 7 10 TE 11 8 TE 10 3 TE 9 5  
TD 6 2 TE 6 4 TE 3 2  
FR TH 5 4 TH 4 5 TH 4 4 TH 3 4 TH 4 3 TH 3 3 TD 3 2 TH 5 3 TH 6 2  
TH 4 10 TH 3 10  
FR TE 9 6 TH 4 1 TH 7 1 TD 7 5 TE 8 5 TE 8 4 TE 9 7 TH 7 8 TH 1 9  
TH 3 2 TD 7 3 TD 7 2  
FR TE 9 2 TE 6 1 TD 5 3 TD 6 3 TH 6 8 TH 6 1 TE 2 1 TE 8 6 TE 8 7  
TE 7 4 TH 3 5 TH 2 3  
FR TD 4 1 TE 11 6 TH 5 6 TH 7 5 TH 1 10 TD 2 1 TH 6 6 TH 7 7 TH 4  
6 TE 5 1 TE 10 7  
FR TH 3 9 TH 4 9 TE 9 4 TE 10 2 TE 10 4 TH 6 11 TH 1 3 TH 4 11 TE  
10 1 TE 8 3 TE 11 4  
FR TE 11 5 TH 7 6 TH 1 2 TH 1 4 TH 3 11

PD  
OU ME=ML AM RS EF FS SS SC IT=250 AD =OFF

TI

Number of Input Variables 18  
Number of Y -Variables 11  
Number of X -Variables 7  
Number of ETA -Variables 3  
Number of KSI -Variables 2  
Number of Observations 600

TI

Covariance Matrix

|     | Y1   | Y2   | Y3   | Y4   | Y5   |
|-----|------|------|------|------|------|
| Y6  | 0.29 |      |      |      |      |
| Y7  | 0.23 | 0.27 |      |      |      |
| Y8  | 0.21 | 0.22 | 0.32 |      |      |
| Y9  | 0.19 | 0.19 | 0.24 | 0.27 |      |
| Y10 | 0.18 | 0.18 | 0.21 | 0.24 | 0.32 |
| Y11 | 0.16 | 0.14 | 0.15 | 0.16 | 0.19 |
| X1  | 0.13 | 0.13 | 0.14 | 0.15 | 0.18 |
| X2  | 0.14 | 0.14 | 0.13 | 0.11 | 0.11 |
| X3  | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| X4  | 0.17 | 0.16 | 0.17 | 0.15 | 0.14 |
| X5  | 0.22 | 0.21 | 0.21 | 0.17 | 0.17 |
| X6  | 0.21 | 0.21 | 0.19 | 0.17 | 0.18 |
| X7  | 0.23 | 0.23 | 0.21 | 0.20 | 0.19 |
| X8  | 0.22 | 0.20 | 0.23 | 0.22 | 0.21 |
| X9  | 0.21 | 0.19 | 0.24 | 0.24 | 0.24 |
| X10 | 0.23 | 0.22 | 0.18 | 0.14 | 0.13 |
| X11 | 0.22 | 0.22 | 0.20 | 0.18 | 0.19 |

0.14 X7 0.18 0.18 0.18 0.16 0.17

Covariance Matrix

|         | Y7   | Y8   | Y9   | Y10  | Y11  |
|---------|------|------|------|------|------|
| X1      |      |      |      |      |      |
| Y7      | 0.29 |      |      |      |      |
| Y8      | 0.09 | 0.21 |      |      |      |
| Y9      | 0.10 | 0.14 | 0.19 |      |      |
| Y10     | 0.10 | 0.17 | 0.17 | 0.25 |      |
| Y11     | 0.13 | 0.16 | 0.13 | 0.16 | 0.29 |
| X1      | 0.14 | 0.16 | 0.12 | 0.16 | 0.26 |
| 0.30 X2 | 0.14 | 0.17 | 0.14 | 0.18 | 0.25 |
| 0.26 X3 | 0.15 | 0.16 | 0.15 | 0.20 | 0.23 |
| 0.23 X4 | 0.18 | 0.14 | 0.14 | 0.19 | 0.19 |
| 0.19 X5 | 0.14 | 0.18 | 0.15 | 0.14 | 0.26 |
| 0.26 X6 | 0.15 | 0.14 | 0.13 | 0.14 | 0.23 |
| 0.22 X7 | 0.15 | 0.11 | 0.12 | 0.12 | 0.21 |
| 0.17    |      |      |      |      |      |

Covariance Matrix

|      | X2   | X3   | X4   | X5   | X6   |
|------|------|------|------|------|------|
| X7   |      |      |      |      |      |
| X2   | 0.32 |      |      |      |      |
| X3   | 0.27 | 0.32 |      |      |      |
| X4   | 0.23 | 0.28 | 0.33 |      |      |
| X5   | 0.27 | 0.22 | 0.18 | 0.42 |      |
| X6   | 0.23 | 0.22 | 0.20 | 0.27 | 0.28 |
| X7   | 0.19 | 0.18 | 0.18 | 0.21 | 0.22 |
| 0.25 |      |      |      |      |      |

TI

Parameter Specifications

LAMBDA-Y

|  | E1 | E2 | E3 |
|--|----|----|----|
|  |    |    |    |

|     |   |   |   |
|-----|---|---|---|
| Y1  | 0 | 0 | 0 |
| Y2  | 1 | 0 | 0 |
| Y3  | 2 | 0 | 0 |
| Y4  | 3 | 0 | 0 |
| Y5  | 0 | 0 | 0 |
| Y6  | 0 | 4 | 0 |
| Y7  | 0 | 5 | 0 |
| Y8  | 0 | 6 | 0 |
| Y9  | 0 | 0 | 0 |
| Y10 | 0 | 0 | 7 |
| Y11 | 0 | 0 | 8 |

## LAMBDA-X

|       |    |    |
|-------|----|----|
|       | K1 | K2 |
| ----- |    |    |
| X1    | 9  | 0  |
| X2    | 10 | 0  |
| X3    | 11 | 0  |
| X4    | 12 | 0  |
| X5    | 0  | 13 |
| X6    | 0  | 14 |
| X7    | 0  | 15 |

## BETA

|       |    |    |    |
|-------|----|----|----|
|       | E1 | E2 | E3 |
| ----- |    |    |    |
| E1    | 0  | 0  | 0  |
| E2    | 0  | 0  | 0  |
| E3    | 16 | 17 | 0  |

## GAMMA

|       |    |    |
|-------|----|----|
|       | K1 | K2 |
| ----- |    |    |
| E1    | 18 | 19 |
| E2    | 20 | 21 |
| E3    | 22 | 23 |

## PHI

|       |    |    |
|-------|----|----|
|       | K1 | K2 |
| ----- |    |    |
| K1    | 0  |    |
| K2    | 24 | 0  |

## PSI

|       |    |    |    |
|-------|----|----|----|
|       | E1 | E2 | E3 |
| ----- |    |    |    |
|       | 25 | 26 | 27 |

## THETA-EPS

|                 | Y1  | Y2  | Y3  | Y4  | Y5  |     |
|-----------------|-----|-----|-----|-----|-----|-----|
| Y6              |     |     |     |     |     |     |
|                 | Y1  | 28  |     |     |     |     |
|                 | Y2  | 29  | 30  |     |     |     |
|                 | Y3  | 0   | 31  | 32  |     |     |
|                 | Y4  | 0   | 0   | 33  | 34  |     |
|                 | Y5  | 35  | 0   | 36  | 37  | 38  |
|                 | Y6  | 39  | 0   | 0   | 40  | 0   |
| 41              | Y7  | 42  | 0   | 0   | 43  | 0   |
| 44              | Y8  | 0   | 0   | 46  | 47  | 48  |
| 49              | Y9  | 0   | 52  | 0   | 53  | 54  |
| 55              | Y10 | 59  | 60  | 61  | 62  | 0   |
| 0               | Y11 | 0   | 0   | 67  | 68  | 69  |
| 70              |     |     |     |     |     |     |
| THETA-EPS       |     |     |     |     |     |     |
|                 | Y7  | Y8  | Y9  | Y10 | Y11 |     |
|                 | Y7  | 45  |     |     |     |     |
|                 | Y8  | 50  | 51  |     |     |     |
|                 | Y9  | 56  | 57  | 58  |     |     |
|                 | Y10 | 63  | 64  | 65  | 66  |     |
|                 | Y11 | 0   | 71  | 0   | 0   | 72  |
| THETA-DELTA-EPS |     |     |     |     |     |     |
|                 | Y1  | Y2  | Y3  | Y4  | Y5  |     |
| Y6              |     |     |     |     |     |     |
|                 | X1  | 0   | 73  | 74  | 75  | 0   |
| 0               | X2  | 0   | 0   | 80  | 0   | 81  |
| 0               | X3  | 0   | 84  | 85  | 86  | 87  |
| 0               | X4  | 93  | 0   | 94  | 95  | 96  |
| 97              | X5  | 0   | 0   | 105 | 106 | 107 |
| 108             | X6  | 114 | 115 | 0   | 0   | 0   |
| 116             | X7  | 123 | 0   | 0   | 0   | 124 |
| 125             |     |     |     |     |     |     |
| THETA-DELTA-EPS |     |     |     |     |     |     |
|                 | Y7  | Y8  | Y9  | Y10 | Y11 |     |

|    |     |     |    |     |     |
|----|-----|-----|----|-----|-----|
| X1 | 0   | 0   | 76 | 77  | 78  |
| X2 | 0   | 0   | 0  | 0   | 0   |
| X3 | 0   | 0   | 88 | 89  | 90  |
| X4 | 98  | 0   | 99 | 100 | 101 |
| X5 | 0   | 0   | 0  | 109 | 0   |
| X6 | 0   | 117 | 0  | 118 | 119 |
| X7 | 126 | 127 | 0  | 128 | 0   |

THETA-DELTA

|    |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|
|    | X1  | X2  | X3  | X4  | X5  |
| X6 |     |     |     |     |     |
| X1 | 79  |     |     |     |     |
| X2 | 82  | 83  |     |     |     |
| X3 | 0   | 91  | 92  |     |     |
| X4 | 102 | 0   | 103 | 104 |     |
| X5 | 0   | 110 | 111 | 112 | 113 |
| X6 | 0   | 120 | 121 | 0   | 0   |
| X7 | 129 | 130 | 131 | 0   | 132 |

THETA-DELTA

|    |     |
|----|-----|
| X7 | 133 |
|----|-----|

TI

Number of Iterations = 69

LISREL Estimates (Maximum Likelihood)

LAMBDA-Y

|        |       |    |    |
|--------|-------|----|----|
|        | E1    | E2 | E3 |
| Y1     | 0.46  | -- | -- |
| Y2     | 0.45  | -- | -- |
| (0.01) | 32.62 |    |    |
| Y3     | 0.46  | -- | -- |
| (0.02) | 23.71 |    |    |
| Y4     | 0.40  | -- | -- |



|          |      |       |       |
|----------|------|-------|-------|
| (0.02)   |      | 22.81 |       |
| Y5       | --   | 0.48  | --    |
| Y6       | --   | 0.38  | --    |
| (0.02)   |      |       | 16.98 |
| Y7       | --   | 0.36  | --    |
| (0.02)   |      |       | 16.07 |
| Y8       | --   | 0.40  | --    |
| (0.03)   |      |       | 16.06 |
| Y9       | --   | --    | 0.27  |
| Y10      | --   | --    | 0.34  |
| (0.01)   |      |       | 23.19 |
| Y11      | --   | --    | 0.47  |
| (0.03)   |      |       | 17.63 |
| LAMBDA-X |      |       |       |
|          |      | K1    | K2    |
| -----    |      |       |       |
| X1       |      | 0.48  | --    |
| (0.02)   |      |       |       |
|          |      | 26.65 |       |
| X2       |      | 0.52  | --    |
| (0.02)   |      |       |       |
|          |      | 29.29 |       |
| X3       | 0.49 | --    |       |
| (0.02)   |      |       |       |
|          |      | 26.26 |       |
| X4       | 0.44 | --    |       |
| (0.02)   |      |       |       |
|          |      | 22.18 |       |

|        |    |      |       |
|--------|----|------|-------|
| X5     | -- | 0.55 |       |
| (0.02) |    |      | 25.39 |
| X6     | -- | 0.49 |       |
| (0.02) |    |      | 29.70 |
| X7     | -- | 0.44 |       |
| (0.02) |    |      | 26.56 |

BETA

|               | E1       | E2    | E3 |
|---------------|----------|-------|----|
| E1            | -- -- -- |       |    |
| E2            | -- -- -- |       |    |
| E3            | 0.37     | -0.07 | -- |
| (0.14) (0.06) | 2.65     | -1.21 |    |

GAMMA

|               | K1   | K2   |
|---------------|------|------|
| E1            | 0.89 | 0.06 |
| (0.14) (0.14) | 6.27 | 0.42 |
| E2            | 0.48 | 0.36 |
| (0.12) (0.12) | 3.92 | 3.02 |
| E3            | 0.33 | 0.42 |
| (0.21) (0.12) | 1.57 | 3.59 |

Covariance Matrix of ETA and KSI

|    | E1   | E2   | E3 | K1 | K2 |
|----|------|------|----|----|----|
| E1 | 1.00 |      |    |    |    |
| E2 | 0.77 | 1.00 |    |    |    |

|    |      |      |      |      |      |
|----|------|------|------|------|------|
| E3 | 1.01 | 0.82 | 1.00 |      |      |
| K1 | 0.95 | 0.81 | 1.02 | 1.00 |      |
| K2 | 0.90 | 0.81 | 1.01 | 0.94 | 1.00 |

PHI

|        | K1   | K2    |
|--------|------|-------|
| K1     | 1.00 |       |
| K2     | 0.94 | 1.00  |
| (0.01) |      | 76.01 |

PSI

Note: This matrix is diagonal.

|                      | E1   | E2   | E3    |
|----------------------|------|------|-------|
| (0.02) (0.04) (0.02) | 0.10 | 0.32 | -0.07 |
|                      | 5.45 | 7.59 | -3.04 |

Squared Multiple Correlations for Structural Equations

|  | E1   | E2   | E3   |
|--|------|------|------|
|  | 0.90 | 0.68 | 0.57 |

Squared Multiple Correlations for Reduced Form

|  | E1   | E2   | E3   |
|--|------|------|------|
|  | 0.90 | 0.68 | 0.57 |

Reduced Form

|               | K1   | K2   |
|---------------|------|------|
| E1            | 0.89 | 0.06 |
| (0.14) (0.14) |      | 6.27 |
|               |      | 0.42 |
| E2            | 0.48 | 0.36 |
| (0.12) (0.12) |      | 3.92 |
|               |      | 3.02 |
| E3            | 0.63 | 0.42 |

|                             |  | (0.13) (0.12) |  |            |  |         |  |       |  |       |  |
|-----------------------------|--|---------------|--|------------|--|---------|--|-------|--|-------|--|
|                             |  | 4.85          |  | 3.34       |  |         |  |       |  |       |  |
| THETA-EPS                   |  |               |  |            |  |         |  |       |  |       |  |
|                             |  | Y1            |  | Y2         |  | Y3      |  | Y4    |  | Y5    |  |
| Y6                          |  |               |  |            |  |         |  |       |  |       |  |
| -----                       |  |               |  |            |  |         |  |       |  |       |  |
| Y1                          |  | 0.08          |  |            |  |         |  |       |  |       |  |
| (0.01)                      |  |               |  |            |  |         |  |       |  |       |  |
|                             |  | 13.03         |  |            |  |         |  |       |  |       |  |
| Y2                          |  | 0.02          |  | 0.07       |  |         |  |       |  |       |  |
| (0.00) (0.01)               |  |               |  |            |  |         |  |       |  |       |  |
|                             |  | 4.32          |  | 12.70      |  |         |  |       |  |       |  |
| Y3                          |  | -- 0.01       |  | 0.11       |  |         |  |       |  |       |  |
| (0.00) (0.01)               |  |               |  |            |  |         |  |       |  |       |  |
|                             |  |               |  | 2.57       |  | 13.12   |  |       |  |       |  |
| Y4                          |  | -- -- 0.05    |  | 0.11       |  |         |  |       |  |       |  |
| (0.01) (0.01)               |  |               |  |            |  |         |  |       |  |       |  |
|                             |  | 8.85          |  | 15.50      |  |         |  |       |  |       |  |
| Y5                          |  | 0.01          |  | -- 0.03    |  | 0.08    |  | 0.08  |  |       |  |
| (0.00) (0.01) (0.01) (0.01) |  |               |  |            |  |         |  |       |  |       |  |
|                             |  | 1.99          |  |            |  | 5.77    |  | 12.70 |  | 7.58  |  |
| Y6                          |  | 0.01          |  | -- -- 0.04 |  | -- 0.14 |  |       |  |       |  |
| (0.00) (0.00) (0.01)        |  |               |  |            |  |         |  |       |  |       |  |
|                             |  | 2.86          |  |            |  | 7.38    |  |       |  |       |  |
| 13.98                       |  |               |  |            |  |         |  |       |  |       |  |
| Y7                          |  | -0.01         |  | -- -- 0.02 |  | -- 0.10 |  |       |  |       |  |
| (0.01) (0.00) (0.01)        |  |               |  |            |  |         |  |       |  |       |  |
|                             |  | -1.81         |  |            |  | 4.64    |  | 10.99 |  |       |  |
| Y8                          |  | -- -- -0.01   |  | -0.02      |  | -0.08   |  | -0.06 |  |       |  |
| (0.00) (0.00) (0.01) (0.01) |  |               |  |            |  |         |  |       |  |       |  |
|                             |  | -2.50         |  | -4.07      |  | -8.25   |  | -7.00 |  |       |  |
| Y9                          |  | -- 0.00       |  | -- 0.01    |  | 0.02    |  | 0.03  |  |       |  |
| (0.00) (0.00) (0.00) (0.00) |  |               |  |            |  |         |  |       |  |       |  |
|                             |  |               |  | 1.23       |  | 3.51    |  | 4.89  |  |       |  |
| 5.61                        |  |               |  |            |  |         |  |       |  |       |  |
| Y10                         |  | 0.01          |  | 0.00       |  | 0.02    |  | 0.01  |  | -- -- |  |

|        |        |        |        |        |       |       |  |
|--------|--------|--------|--------|--------|-------|-------|--|
| (0.00) | (0.00) | (0.00) | (0.00) |        |       |       |  |
|        |        | 1.96   | -0.34  | 3.65   | 2.58  |       |  |
| Y11    | --     | --     | 0.00   | -0.01  | -0.01 | -0.01 |  |
|        | (0.00) | (0.00) | (0.00) | (0.00) |       |       |  |
|        |        |        | 0.85   | -3.25  | -1.74 | -3.85 |  |

THETA-EPS

|                             | Y7    | Y8    | Y9    | Y10  | Y11   |
|-----------------------------|-------|-------|-------|------|-------|
| -----                       | ----- |       |       |      |       |
| Y7                          | 0.16  |       |       |      |       |
| (0.01)                      |       |       |       |      |       |
|                             | 15.31 |       |       |      |       |
| Y8                          | -0.05 | 0.05  |       |      |       |
| (0.01) (0.01)               |       |       |       |      |       |
| -5.87                       | 4.28  |       |       |      |       |
| Y9                          | 0.02  | 0.05  | 0.12  |      |       |
| (0.01) (0.01) (0.01)        |       |       |       |      |       |
|                             | 3.16  | 9.55  | 17.35 |      |       |
| Y10                         | -0.01 | 0.05  | 0.08  | 0.13 |       |
| (0.00) (0.01) (0.01) (0.01) |       |       |       |      |       |
| -2.51                       | 9.12  | 13.05 | 17.12 |      |       |
| Y11                         | --    | 0.01  | --    | --   | 0.07  |
| (0.00) (0.01)               |       |       |       |      |       |
|                             |       | 2.08  |       |      | 11.76 |

Squared Multiple Correlations for Y -Variables

| Y6    | Y1    | Y2    | Y3    | Y4    | Y5    |
|-------|-------|-------|-------|-------|-------|
| ----- | ----- | ----- | ----- | ----- | ----- |
|       | 0.73  | 0.75  | 0.66  | 0.61  | 0.74  |
| 0.50  |       |       |       |       |       |

Squared Multiple Correlations for Y -Variables

| Y7    | Y8    | Y9    | Y10   | Y11   |
|-------|-------|-------|-------|-------|
| ----- | ----- | ----- | ----- | ----- |
|       | 0.45  | 0.77  | 0.37  | 0.47  |
|       |       |       |       | 0.74  |

THETA-DELTA-EPS

|       |    | Y1                           | Y2                        | Y3              | Y4    | Y5   |
|-------|----|------------------------------|---------------------------|-----------------|-------|------|
| Y6    |    |                              |                           |                 |       |      |
|       | X1 | -- 0.00<br>(0.00)            | -0.02                     | -0.01           | -- -- |      |
|       |    |                              | 1.04                      | -3.42           | -1.78 |      |
|       | X2 | -- -- -0.02<br>(0.00) (0.00) | -- -0.01                  | --              |       |      |
|       |    | -4.41                        | -3.92                     |                 |       |      |
|       | X3 | -- -0.01<br>(0.00) (0.01)    | 0.01                      | 0.03            | 0.02  | --   |
|       |    | -3.83                        | 2.75                      | 7.10            | 3.66  |      |
|       | X4 | 0.02<br>(0.00)               | -- 0.05<br>(0.01) (0.01)  | 0.07            | 0.06  | 0.01 |
|       |    |                              | 4.77                      | 7.81            | 11.51 | 9.06 |
| 2.97  |    |                              |                           |                 |       |      |
|       | X5 | -- -- -0.04<br>(0.01) (0.01) | -0.05<br>(0.01)           | -0.07<br>(0.00) | -0.02 |      |
|       |    | -7.11                        | -9.43                     | -11.40          | -4.49 |      |
|       | X6 | 0.02<br>(0.00)               | 0.03<br>(0.00)            | -- -- --        | -0.01 |      |
|       |    |                              | 5.36                      | 8.28            |       |      |
| -3.31 |    |                              |                           |                 |       |      |
|       | X7 | -0.01<br>(0.00)              | -- -- --<br>(0.00) (0.01) | -0.01           | 0.01  |      |
|       |    | -1.65                        |                           |                 | -1.64 | 1.50 |

## THETA-DELTA-EPS

|  |    | Y7                           | Y8    | Y9    | Y10  | Y11   |
|--|----|------------------------------|-------|-------|------|-------|
|  | X1 | -- -- -0.01<br>(0.00) (0.00) | -0.01 | 0.03  |      |       |
|  |    | -3.36                        | -2.73 | 8.87  |      |       |
|  | X2 | -- -- --                     | --    |       |      |       |
|  | X3 | -- -- 0.02<br>(0.00) (0.00)  | 0.02  | -0.01 |      |       |
|  |    |                              |       | 4.37  | 6.46 | -1.48 |

|        |        |        |        |       |       |       |
|--------|--------|--------|--------|-------|-------|-------|
| X4     | 0.04   | --     | 0.02   | 0.03  | -0.01 |       |
| (0.01) | (0.00) | (0.00) | (0.00) |       |       |       |
|        | 7.13   |        |        | 4.05  | 6.89  | -3.07 |
| X5     | --     | --     | --     | -0.05 | --    |       |
|        | (0.00) |        |        |       |       |       |
|        | -10.17 |        |        |       |       |       |
| X6     | --     | -0.01  | --     | -0.03 | 0.00  |       |
| (0.00) | (0.00) | (0.00) |        |       |       |       |
|        | -3.86  |        | -8.15  | 1.29  |       |       |
| X7     | 0.02   | -0.03  | --     | -0.03 | --    |       |
| (0.01) | (0.00) | (0.00) |        |       |       |       |
|        | 3.22   | -5.95  |        |       | -7.21 |       |

THETA-DELTA

|        | X1     | X2     | X3     | X4    | X5    |       |
|--------|--------|--------|--------|-------|-------|-------|
| X6     |        |        |        |       |       |       |
| -----  | -----  | -----  | -----  | ----- | ----- |       |
| X1     | 0.07   |        |        |       |       |       |
| (0.01) |        |        |        |       |       |       |
|        | 12.47  |        |        |       |       |       |
| X2     | 0.01   | 0.04   |        |       |       |       |
| (0.00) | (0.01) |        |        |       |       |       |
|        | 3.39   | 8.42   |        |       |       |       |
| X3     | --     | 0.01   | 0.08   |       |       |       |
| (0.00) | (0.01) |        |        |       |       |       |
|        |        | 3.39   | 12.81  |       |       |       |
| X4     | -0.02  | --     | 0.06   | 0.13  |       |       |
| (0.00) | (0.01) | (0.01) |        |       |       |       |
|        | -5.07  |        | 11.66  | 16.86 |       |       |
| X5     | --     | 0.00   | -0.03  | -0.04 | 0.12  |       |
| (0.00) | (0.01) | (0.01) | (0.01) |       |       |       |
|        | -0.65  | -5.04  | -7.35  | 13.55 |       |       |
| X6     | --     | -0.02  | -0.01  | --    | --    | 0.04  |
| (0.00) | (0.00) |        | (0.00) |       |       |       |
|        | -4.88  | -1.92  |        |       |       | 11.17 |
| X7     | -0.03  | -0.02  | -0.02  | --    | -0.03 | --    |
| (0.00) | (0.00) | (0.00) | (0.01) |       |       |       |





Chi-Square for Independence Model with 153 Degrees of Freedom  
=36161.56

Independence AIC =36197.56  
Model AIC =303.75  
Saturated AIC =342.00  
Independence CAIC =36294.71  
Model CAIC=1021.55  
Saturated CAIC =1264.87

Normed Fit Index (NFI)=1.00  
Non-Normed Fit Index (NNFI)=1.00  
Parsimony Normed Fit Index (PNFI)=0.25  
Comparative Fit Index (CFI)=1.00  
Incremental Fit Index (IFI)=1.00  
Relative Fit Index (RFI)=1.00

Critical N (CN)=980.68

Root Mean Square Residual (RMR)=0.0045  
Standardized RMR =0.015  
Goodness of Fit Index (GFI)=0.99  
Adjusted Goodness of Fit Index (AGFI)=0.97  
Parsimony Goodness of Fit Index (PGFI)=0.22

TI

Fitted Covariance Matrix

|      | Y1   | Y2   | Y3   | Y4   | Y5   |
|------|------|------|------|------|------|
| Y6   | 0.29 |      |      |      |      |
| 0.28 | Y1   | 0.23 |      |      |      |
|      | Y2   | 0.28 |      |      |      |
|      | Y3   | 0.21 | 0.22 | 0.32 |      |
|      | Y4   | 0.19 | 0.18 | 0.24 | 0.27 |
|      | Y5   | 0.18 | 0.17 | 0.20 | 0.23 |
|      | Y6   | 0.15 | 0.13 | 0.13 | 0.15 |
| 0.24 | Y7   | 0.12 | 0.13 | 0.13 | 0.13 |
|      | Y8   | 0.14 | 0.14 | 0.13 | 0.11 |
| 0.09 | Y9   | 0.13 | 0.13 | 0.12 | 0.12 |
| 0.11 | Y10  | 0.17 | 0.15 | 0.17 | 0.15 |
| 0.11 |      |      |      |      |      |

|      |     |      |      |      |      |      |
|------|-----|------|------|------|------|------|
| 0.13 | Y11 | 0.22 | 0.21 | 0.22 | 0.18 | 0.18 |
| 0.15 | X1  | 0.21 | 0.21 | 0.19 | 0.18 | 0.19 |
| 0.16 | X2  | 0.23 | 0.23 | 0.21 | 0.20 | 0.19 |
| 0.15 | X3  | 0.22 | 0.20 | 0.23 | 0.22 | 0.21 |
| 0.15 | X4  | 0.21 | 0.19 | 0.24 | 0.23 | 0.23 |
| 0.14 | X5  | 0.23 | 0.22 | 0.18 | 0.15 | 0.14 |
| 0.14 | X6  | 0.22 | 0.23 | 0.20 | 0.18 | 0.19 |
| 0.14 | X7  | 0.18 | 0.18 | 0.18 | 0.16 | 0.17 |

Fitted Covariance Matrix

|      |       | Y7   | Y8   | Y9   | Y10  | Y11  |
|------|-------|------|------|------|------|------|
| X1   | ----- |      |      |      |      |      |
|      | Y7    | 0.29 |      |      |      |      |
|      | Y8    | 0.09 | 0.21 |      |      |      |
|      | Y9    | 0.10 | 0.14 | 0.19 |      |      |
|      | Y10   | 0.09 | 0.17 | 0.17 | 0.25 |      |
|      | Y11   | 0.14 | 0.16 | 0.13 | 0.16 | 0.29 |
| 0.30 | X1    | 0.14 | 0.16 | 0.12 | 0.16 | 0.26 |
| 0.26 | X2    | 0.15 | 0.17 | 0.14 | 0.18 | 0.25 |
| 0.24 | X3    | 0.14 | 0.16 | 0.15 | 0.20 | 0.23 |
| 0.19 | X4    | 0.16 | 0.14 | 0.14 | 0.18 | 0.19 |
| 0.25 | X5    | 0.16 | 0.18 | 0.15 | 0.14 | 0.26 |
| 0.22 | X6    | 0.14 | 0.15 | 0.13 | 0.14 | 0.23 |
| 0.17 | X7    | 0.14 | 0.12 | 0.12 | 0.12 | 0.21 |

Fitted Covariance Matrix

|    |       | X2   | X3   | X4 | X5 | X6 |
|----|-------|------|------|----|----|----|
| X7 | ----- |      |      |    |    |    |
|    | X2    | 0.31 |      |    |    |    |
|    | X3    | 0.27 | 0.32 |    |    |    |

|    |      |      |      |      |      |
|----|------|------|------|------|------|
| X4 | 0.23 | 0.27 | 0.32 |      |      |
| X5 | 0.27 | 0.22 | 0.18 | 0.41 |      |
| X6 | 0.23 | 0.22 | 0.20 | 0.27 | 0.28 |
| X7 | 0.20 | 0.18 | 0.18 | 0.21 | 0.22 |

0.25

Fitted Residuals

|       | Y1    | Y2   | Y3   | Y4   | Y5    |
|-------|-------|------|------|------|-------|
| Y6    | ----- |      |      |      |       |
| Y1    | 0.00  |      |      |      |       |
| Y2    | 0.00  | 0.00 |      |      |       |
| Y3    | 0.00  | 0.00 | 0.00 |      |       |
| Y4    | 0.00  | 0.01 | 0.01 | 0.01 |       |
| Y5    | 0.00  | 0.01 | 0.01 | 0.01 | 0.01  |
| Y6    | 0.01  | 0.01 | 0.01 | 0.01 | 0.01  |
| 0.00  |       |      |      |      |       |
| Y7    | 0.01  | 0.01 | 0.02 | 0.01 | 0.01  |
| 0.00  |       |      |      |      |       |
| Y8    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| 0.00  |       |      |      |      |       |
| Y9    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| 0.00  |       |      |      |      |       |
| Y10   | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| 0.01  |       |      |      |      |       |
| Y11   | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| 0.00  |       |      |      |      |       |
| X1    | 0.00  | 0.00 | 0.00 | 0.00 | -0.01 |
| 0.00  |       |      |      |      |       |
| X2    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| -0.01 |       |      |      |      |       |
| X3    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| 0.01  |       |      |      |      |       |
| X4    | 0.00  | 0.01 | 0.00 | 0.01 | 0.01  |
| 0.01  |       |      |      |      |       |
| X5    | 0.00  | 0.00 | 0.00 | 0.00 | -0.01 |
| 0.01  |       |      |      |      |       |
| X6    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| 0.01  |       |      |      |      |       |
| X7    | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| 0.00  |       |      |      |      |       |

Fitted Residuals

|    | Y7    | Y8 | Y9 | Y10 | Y11 |
|----|-------|----|----|-----|-----|
| X1 | ----- |    |    |     |     |
| Y7 | 0.00  |    |    |     |     |

|      |     |       |       |      |      |      |
|------|-----|-------|-------|------|------|------|
|      | Y8  | 0.00  | 0.00  |      |      |      |
|      | Y9  | 0.00  | 0.00  | 0.00 |      |      |
|      | Y10 | 0.01  | 0.00  | 0.00 | 0.00 |      |
|      | Y11 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 |
| 0.00 | X1  | -0.01 | 0.00  | 0.00 | 0.00 | 0.00 |
| 0.00 | X2  | -0.01 | 0.00  | 0.00 | 0.00 | 0.00 |
| 0.00 | X3  | 0.01  | 0.00  | 0.00 | 0.00 | 0.00 |
| 0.00 | X4  | 0.01  | -0.01 | 0.00 | 0.00 | 0.00 |
| 0.01 | X5  | -0.01 | 0.00  | 0.00 | 0.00 | 0.01 |
| 0.00 | X6  | 0.01  | 0.00  | 0.00 | 0.00 | 0.00 |
| 0.00 | X7  | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 |

Fitted Residuals

|    | X2   | X3   | X4   | X5   | X6   |
|----|------|------|------|------|------|
| X7 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| X2 | 0.00 |      |      |      |      |
| X3 | 0.00 | 0.00 |      |      |      |
| X4 | 0.00 | 0.00 | 0.01 |      |      |
| X5 | 0.00 | 0.00 | 0.00 | 0.00 |      |
| X6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| X7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.01

Median Fitted Residual = 0.00

Largest Fitted Residual = 0.02

Stemleaf Plot

```

-14|2
-12|
-10|
-8|28
-6|90
-4|8550086530000
-2|9533321199999776654332100
-0|99997633109988765522210000
  0|1112222333444566777899999000001112334445566777779
    
```

2|12444559113455777  
 4|1445034777999  
 6|02234667199  
 8|1277157  
 10|4  
 12|22  
 14|5  
 16|5

## Standardized Residuals

|      | Y1    | Y2    | Y3    | Y4    | Y5    |   |
|------|-------|-------|-------|-------|-------|---|
| Y6   |       |       |       |       |       |   |
|      | 0.24  |       |       |       |       |   |
|      | 0.13  | -0.96 |       |       |       |   |
|      | -1.00 | 0.45  | 0.83  |       |       |   |
| Y4   | 0.21  | 1.94  | 2.14  | 2.40  |       |   |
|      | 0.74  | 1.78  | 2.35  | 2.20  | 2.03  |   |
|      | 2.02  | 1.78  | 2.40  | 2.53  | 2.49  |   |
| 0.28 |       |       |       |       |       |   |
|      | 1.96  | 1.43  | 2.67  | 2.94  | 2.65  | - |
| 0.19 |       |       |       |       |       |   |
|      | 0.09  | -0.29 | -1.01 | -1.06 | -1.00 | - |
| 0.33 |       |       |       |       |       |   |
|      | 1.01  | 1.00  | 1.00  | 1.08  | 0.86  |   |
| 0.94 |       |       |       |       |       |   |
| Y10  | 0.29  | 0.50  | 0.20  | 0.76  | 0.73  |   |
| 1.06 |       |       |       |       |       |   |
| Y11  | -0.76 | -1.69 | -2.87 | -2.88 | -2.02 | - |
| 0.65 |       |       |       |       |       |   |
| X1   | 0.03  | -0.02 | -1.78 | -1.79 | -1.55 | - |
| 1.11 |       |       |       |       |       |   |
| X2   | 0.41  | 0.13  | -0.17 | -1.03 | -1.67 | - |
| 2.53 |       |       |       |       |       |   |
| X3   | 0.58  | 1.64  | 1.02  | 0.84  | 0.80  |   |
| 1.22 |       |       |       |       |       |   |
| X4   | 0.62  | 1.52  | 1.95  | 2.55  | 2.04  |   |
| 2.32 |       |       |       |       |       |   |
| X5   | 1.00  | -0.54 | -0.45 | -1.22 | -1.71 | - |
| 1.76 |       |       |       |       |       |   |
| X6   | 0.24  | -1.06 | -0.71 | -0.05 | 0.58  |   |
| 1.88 |       |       |       |       |       |   |
| X7   | -0.49 | -0.73 | 0.45  | -0.24 | 0.13  |   |
| 0.39 |       |       |       |       |       |   |

## Standardized Residuals

|    | Y7 | Y8 | Y9 | Y10 | Y11 |
|----|----|----|----|-----|-----|
| X1 |    |    |    |     |     |

|      |       |       |       |       |       |   |  |
|------|-------|-------|-------|-------|-------|---|--|
| Y7   | -1.81 |       |       |       |       |   |  |
| Y8   | -0.96 | 0.95  |       |       |       |   |  |
| Y9   | 0.59  | -0.31 | -0.02 |       |       |   |  |
| Y10  | 1.27  | -0.29 | 0.95  | 0.34  |       |   |  |
| Y11  | -0.64 | 0.68  | 0.15  | -1.78 | 0.95  |   |  |
| X1   | -1.08 | 1.21  | 0.63  | -0.12 | 0.65  |   |  |
| 0.23 |       |       |       |       |       |   |  |
| X2   | -1.87 | 1.94  | 0.45  | 1.12  | 0.08  | - |  |
| 0.03 |       |       |       |       |       |   |  |
| X3   | 1.66  | -0.62 | 0.31  | 0.10  | -1.96 | - |  |
| 1.09 |       |       |       |       |       |   |  |
| X4   | 2.70  | -1.34 | 0.21  | 0.31  | -2.53 | - |  |
| 1.33 |       |       |       |       |       |   |  |
| X5   | -2.11 | 0.89  | -0.42 | 0.33  | 2.06  |   |  |
| 2.31 |       |       |       |       |       |   |  |
| X6   | 1.27  | -1.41 | -0.92 | -1.36 | 0.67  |   |  |
| 1.26 |       |       |       |       |       |   |  |
| X7   | 0.29  | -1.93 | -1.11 | -1.38 | 0.09  | - |  |
| 0.26 |       |       |       |       |       |   |  |

Standardized Residuals

|    | X2    | X3    | X4    | X5    | X6    |
|----|-------|-------|-------|-------|-------|
| X7 |       |       |       |       |       |
| X2 | 0.88  |       |       |       |       |
| X3 | 1.26  | 0.71  |       |       |       |
| X4 | 0.68  | 1.51  | 2.25  |       |       |
| X5 | 1.55  | 0.73  | -1.28 | 1.03  |       |
| X6 | 0.15  | -0.49 | -0.62 | -0.37 | -0.01 |
| X7 | -2.23 | -0.79 | -0.89 | -0.96 | 0.57  |

Summary Statistics for Standardized Residuals

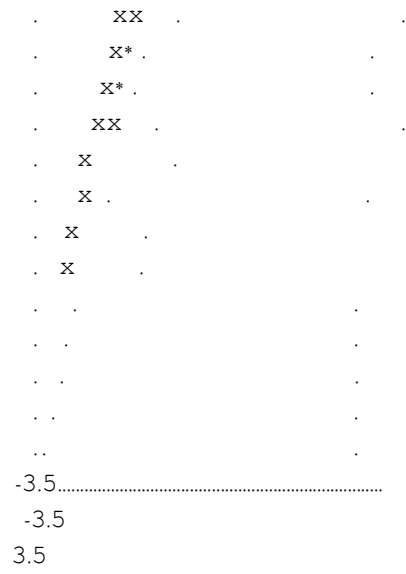
Smallest Standardized Residual = -2.88  
 Median Standardized Residual = 0.24  
 Largest Standardized Residual = 2.94

Stemleaf Plot

```

-2|9955
-2|2100
-1|99888887776
-1|44433321111110000000
-0|9988776666555
-0|444333332221000000
 0|1111111222222223333334444
    
```





Standardized Residuals

TI

Modification Indices and Expected Change

Modification Indices for LAMBDA-Y

|     | E1      | E2      | E3 |
|-----|---------|---------|----|
| Y1  | -- 0.00 | 0.09    |    |
| Y2  | -- 0.20 | 0.09    |    |
| Y3  | -- 1.03 | 0.05    |    |
| Y4  | -- 0.34 | 0.27    |    |
| Y5  | 0.34    | -- 0.03 |    |
| Y6  | 0.03    | -- 0.00 |    |
| Y7  | 0.02    | -- 0.03 |    |
| Y8  | 0.14    | -- 0.18 |    |
| Y9  | 1.59    | 0.25    | -- |
| Y10 | 0.13    | 0.63    | -- |
| Y11 | 1.99    | 0.45    | -- |

Expected Change for LAMBDA-Y

|    | E1       | E2      | E3 |
|----|----------|---------|----|
| Y1 | -- 0.00  | 0.02    |    |
| Y2 | -- 0.01  | -0.02   |    |
| Y3 | -- 0.04  | 0.02    |    |
| Y4 | -- -0.04 | -0.04   |    |
| Y5 | 0.05     | -- 0.03 |    |
| Y6 | 0.00     | -- 0.00 |    |
| Y7 | 0.00     | -- 0.00 |    |



|     |       |       |       |
|-----|-------|-------|-------|
| Y8  | -0.03 | --    | -0.09 |
| Y9  | 0.09  | -0.09 | --    |
| Y10 | -0.04 | 0.03  | --    |
| Y11 | -0.24 | -0.04 | --    |

## Standardized Expected Change for LAMBDA-Y

|     | E1       | E2       | E3 |
|-----|----------|----------|----|
| Y1  | -- 0.00  | 0.02     |    |
| Y2  | -- 0.01  | -0.02    |    |
| Y3  | -- 0.04  | 0.02     |    |
| Y4  | -- -0.04 | -0.04    |    |
| Y5  | 0.05     | -- 0.03  |    |
| Y6  | 0.00     | -- 0.00  |    |
| Y7  | 0.00     | -- 0.00  |    |
| Y8  | -0.03    | -- -0.09 |    |
| Y9  | 0.09     | -0.09    | -- |
| Y10 | -0.04    | 0.03     | -- |
| Y11 | -0.24    | -0.04    | -- |

## Completely Standardized Expected Change for LAMBDA-Y

|     | E1       | E2       | E3 |
|-----|----------|----------|----|
| Y1  | -- 0.00  | 0.04     |    |
| Y2  | -- 0.02  | -0.04    |    |
| Y3  | -- 0.07  | 0.03     |    |
| Y4  | -- -0.08 | -0.08    |    |
| Y5  | 0.09     | -- 0.06  |    |
| Y6  | 0.01     | -- 0.00  |    |
| Y7  | 0.01     | -- 0.01  |    |
| Y8  | -0.06    | -- -0.20 |    |
| Y9  | 0.20     | -0.21    | -- |
| Y10 | -0.09    | 0.07     | -- |
| Y11 | -0.45    | -0.07    | -- |

## Modification Indices for LAMBDA-X

|    | K1      | K2 |
|----|---------|----|
| X1 | -- 4.34 |    |
| X2 | -- 0.26 |    |
| X3 | -- 0.42 |    |
| X4 | -- 4.58 |    |
| X5 | 2.76    | -- |
| X6 | 0.00    | -- |
| X7 | 2.77    | -- |

## Expected Change for LAMBDA-X

|    | K1       | K2 |
|----|----------|----|
| X1 | -- 0.19  |    |
| X2 | -- -0.10 |    |
| X3 | -- 0.13  |    |
| X4 | -- -0.18 |    |
| X5 | 0.17     | -- |
| X6 | 0.00     | -- |
| X7 | -0.14    | -- |

## Standardized Expected Change for LAMBDA-X

|    | K1       | K2 |
|----|----------|----|
| X1 | -- 0.19  |    |
| X2 | -- -0.10 |    |
| X3 | -- 0.13  |    |
| X4 | -- -0.18 |    |
| X5 | 0.17     | -- |
| X6 | 0.00     | -- |
| X7 | -0.14    | -- |

## Completely Standardized Expected Change for LAMBDA-X

|    | K1       | K2 |
|----|----------|----|
| X1 | -- 0.35  |    |
| X2 | -- -0.17 |    |
| X3 | -- 0.23  |    |
| X4 | -- -0.32 |    |
| X5 | 0.27     | -- |
| X6 | 0.00     | -- |
| X7 | -0.28    | -- |

## Modification Indices for BETA

|    | E1       | E2      | E3 |
|----|----------|---------|----|
| E1 | -- 0.79  | 0.79    |    |
| E2 | 0.79     | -- 0.79 |    |
| E3 | -- -- -- |         |    |

## Expected Change for BETA

|    | E1      | E2      | E3 |
|----|---------|---------|----|
| E1 | -- 0.04 | -0.53   |    |
| E2 | 0.13    | -- 0.35 |    |

E3            -- -- --

Standardized Expected Change for BETA

|    | E1       | E2      | E3 |
|----|----------|---------|----|
| E1 | -- 0.04  | -0.53   |    |
| E2 | 0.13     | -- 0.35 |    |
| E3 | -- -- -- |         |    |

No Non-Zero Modification Indices for GAMMA

No Non-Zero Modification Indices for PHI

Modification Indices for PSI

|    | E1       | E2 | E3 |
|----|----------|----|----|
| E1 | --       |    |    |
| E2 | 0.79     | -- |    |
| E3 | -- -- -- |    |    |

Expected Change for PSI

|    | E1       | E2 | E3 |
|----|----------|----|----|
| E1 | --       |    |    |
| E2 | 0.01     | -- |    |
| E3 | -- -- -- |    |    |

Standardized Expected Change for PSI

|    | E1       | E2 | E3 |
|----|----------|----|----|
| E1 | --       |    |    |
| E2 | 0.01     | -- |    |
| E3 | -- -- -- |    |    |

Modification Indices for THETA-EPS

|    | Y1      | Y2       | Y3          | Y4 | Y5 |
|----|---------|----------|-------------|----|----|
| Y1 | --      |          |             |    |    |
| Y2 | -- --   |          |             |    |    |
| Y3 | 0.61    | -- --    |             |    |    |
| Y4 | 0.00    | 0.74     | -- --       |    |    |
| Y5 | -- 0.20 | -- -- -- |             |    |    |
| Y6 | -- 0.46 | 0.00     | -- 0.00     | -- |    |
| Y7 | -- 0.00 | 0.49     | -- 0.00     | -- |    |
| Y8 | 0.03    | 0.07     | -- -- -- -- |    |    |

|     |      |    |      |      |      |    |
|-----|------|----|------|------|------|----|
| Y9  | 0.46 | -- | 0.28 | --   | --   | -- |
| Y10 | --   | -- | --   | 0.41 | 0.02 |    |
| Y11 | 0.02 |    | 0.49 | --   | --   | -- |

Modification Indices for THETA-EPS

|     | Y7   | Y8 | Y9   | Y10  | Y11 |
|-----|------|----|------|------|-----|
| Y7  | --   |    |      |      |     |
| Y8  | --   | -- |      |      |     |
| Y9  | --   | -- | --   |      |     |
| Y10 | --   | -- | --   | --   |     |
| Y11 | 0.68 | -- | 0.17 | 0.17 | --  |

Expected Change for THETA-EPS

| Y6  | Y1   | Y2   | Y3   | Y4   | Y5   |
|-----|------|------|------|------|------|
| Y1  | --   |      |      |      |      |
| Y2  | --   | --   |      |      |      |
| Y3  | 0.00 | --   | --   |      |      |
| Y4  | 0.00 | 0.00 | --   | --   |      |
| Y5  | --   | 0.00 | --   | --   | --   |
| Y6  | --   | 0.00 | 0.00 | --   | 0.00 |
| Y7  | --   | 0.00 | 0.00 | --   | 0.00 |
| Y8  | 0.00 | 0.00 | --   | --   | --   |
| Y9  | 0.00 | --   | 0.00 | --   | --   |
| Y10 | --   | --   | --   | 0.00 | 0.00 |
| Y11 | 0.00 | 0.00 | --   | --   | --   |

Expected Change for THETA-EPS

|     | Y7    | Y8 | Y9   | Y10  | Y11 |
|-----|-------|----|------|------|-----|
| Y7  | --    |    |      |      |     |
| Y8  | --    | -- |      |      |     |
| Y9  | --    | -- | --   |      |     |
| Y10 | --    | -- | --   | --   |     |
| Y11 | -0.01 | -- | 0.00 | 0.00 | --  |

Completely Standardized Expected Change for THETA-EPS

| Y6 | Y1    | Y2 | Y3 | Y4 | Y5 |
|----|-------|----|----|----|----|
| Y1 | --    |    |    |    |    |
| Y2 | --    | -- |    |    |    |
| Y3 | -0.01 | -- | -- |    |    |

|     |      |       |      |      |      |    |
|-----|------|-------|------|------|------|----|
| Y4  | 0.00 | 0.01  | --   | --   |      |    |
| Y5  | --   | 0.01  | --   | --   | --   |    |
| Y6  | --   | 0.01  | 0.00 | --   | 0.00 | -- |
| Y7  | --   | 0.00  | 0.01 | --   | 0.00 | -- |
| Y8  | 0.00 | 0.00  | --   | --   | --   | -- |
| Y9  | 0.01 | --    | 0.01 | --   | --   | -- |
| Y10 | --   | --    | --   | 0.01 | 0.00 |    |
| Y11 | 0.00 | -0.01 | --   | --   | --   | -- |

Completely Standardized Expected Change for THETA-EPS

|     | Y7    | Y8 | Y9   | Y10   | Y11 |
|-----|-------|----|------|-------|-----|
| Y7  | --    |    |      |       |     |
| Y8  | --    | -- |      |       |     |
| Y9  | --    | -- | --   |       |     |
| Y10 | --    | -- | --   | --    |     |
| Y11 | -0.02 | -- | 0.01 | -0.01 | --  |

Modification Indices for THETA-DELTA-EPS

| Y6 | Y1   | Y2   | Y3   | Y4   | Y5 |
|----|------|------|------|------|----|
| X1 | 0.29 | --   | 0.37 | 0.17 |    |
| X2 | 0.07 | 0.01 | --   | 0.69 | -- |
| X3 | 0.25 | --   | --   | 0.00 |    |
| X4 | --   | 0.60 | --   | --   | -- |
| X5 | 0.74 | 0.01 | --   | --   | -- |
| X6 | --   | 0.39 | 0.01 | 0.07 | -- |
| X7 | --   | 1.17 | 0.65 | 0.05 | -- |

Modification Indices for THETA-DELTA-EPS

|    | Y7   | Y8   | Y9   | Y10  | Y11  |
|----|------|------|------|------|------|
| X1 | 0.23 | 0.07 | --   | --   | --   |
| X2 | 0.44 | 1.77 | 0.06 | 0.00 | 0.10 |
| X3 | 1.24 | 0.24 | --   | --   | --   |
| X4 | --   | 1.16 | --   | --   | --   |
| X5 | 2.02 | 0.01 | 0.03 | --   | 0.50 |
| X6 | 1.46 | --   | 0.61 | --   | --   |
| X7 | --   | --   | 0.22 | --   | 0.01 |

Expected Change for THETA-DELTA-EPS

| Y6 | Y1 | Y2 | Y3 | Y4 | Y5 |
|----|----|----|----|----|----|
|    |    |    |    |    |    |

|    |      |      |      |      |      |      |      |      |
|----|------|------|------|------|------|------|------|------|
| X1 | 0.00 | --   | --   | --   | 0.00 | 0.00 |      |      |
| X2 | 0.00 |      | 0.00 |      | --   | 0.00 | --   | 0.00 |
| X3 | 0.00 |      | --   | --   | --   | 0.00 |      |      |
| X4 | --   | 0.00 |      | --   | --   | --   |      |      |
| X5 | 0.00 |      | 0.00 |      | --   | --   | --   |      |
| X6 | --   | --   | 0.00 |      | 0.00 | 0.00 | 0.00 | --   |
| X7 | --   | 0.00 |      | 0.00 |      | 0.00 | --   | --   |

Expected Change for THETA-DELTA-EPS

|    | Y7    | Y8   | Y9   | Y10  | Y11  |
|----|-------|------|------|------|------|
| X1 | 0.00  | 0.00 | --   | --   | --   |
| X2 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 |
| X3 | 0.00  | 0.00 | --   | --   | --   |
| X4 | --    | 0.00 | --   | --   | --   |
| X5 | -0.01 | 0.00 | 0.00 | --   | 0.00 |
| X6 | 0.00  | --   | 0.00 | --   | --   |
| X7 | --    | --   | 0.00 | --   | 0.00 |

Completely Standardized Expected Change for THETA-DELTA-

EPS

|    | Y1    | Y2    | Y3    | Y4    | Y5   |
|----|-------|-------|-------|-------|------|
| X1 | -0.01 | --    | --    | -0.01 | 0.00 |
| X2 | 0.00  | 0.00  | --    | -0.02 | --   |
| X3 | 0.01  | --    | --    | --    | 0.00 |
| X4 | --    | 0.01  | --    | --    | --   |
| X5 | 0.01  | 0.00  | --    | --    | --   |
| X6 | --    | --    | -0.01 | 0.00  | 0.00 |
| X7 | --    | -0.02 | 0.01  | 0.00  | --   |

Completely Standardized Expected Change for THETA-DELTA-

EPS

|    | Y7    | Y8    | Y9    | Y10  | Y11  |
|----|-------|-------|-------|------|------|
| X1 | -0.01 | 0.00  | --    | --   | --   |
| X2 | -0.01 | 0.02  | 0.00  | 0.00 | 0.01 |
| X3 | 0.01  | -0.01 | --    | --   | --   |
| X4 | --    | -0.02 | --    | --   | --   |
| X5 | -0.03 | 0.00  | 0.00  | --   | 0.01 |
| X6 | 0.02  | --    | -0.01 | --   | --   |
| X7 | --    | --    | -0.01 | --   | 0.00 |

Modification Indices for THETA-DELTA

|    | X1       | X2          | X3   | X4   | X5 |
|----|----------|-------------|------|------|----|
| X6 |          |             |      |      |    |
| X1 | --       |             |      |      |    |
| X2 | -- --    |             |      |      |    |
| X3 | 1.42     | -- --       |      |      |    |
| X4 | -- 3.33  | -- --       |      |      |    |
| X5 | 0.50     | -- -- -- -- |      |      |    |
| X6 | 1.31     | -- --       | 0.26 | 2.22 | -- |
| X7 | -- -- -- | 0.98        | --   | 2.29 |    |

Modification Indices for THETA-DELTA

|    | X7 |
|----|----|
| X7 | -- |

Expected Change for THETA-DELTA

|    | X1       | X2          | X3   | X4    | X5 |
|----|----------|-------------|------|-------|----|
| X6 |          |             |      |       |    |
| X1 | --       |             |      |       |    |
| X2 | -- --    |             |      |       |    |
| X3 | -0.01    | -- --       |      |       |    |
| X4 | -- 0.01  | -- --       |      |       |    |
| X5 | 0.00     | -- -- -- -- |      |       |    |
| X6 | 0.00     | -- --       | 0.00 | -0.01 | -- |
| X7 | -- -- -- | 0.00        | --   | 0.01  |    |

Expected Change for THETA-DELTA

|    | X7 |
|----|----|
| X7 | -- |

Completely Standardized Expected Change for THETA-DELTA

|    | X1       | X2          | X3    | X4    | X5 |
|----|----------|-------------|-------|-------|----|
| X6 |          |             |       |       |    |
| X1 | --       |             |       |       |    |
| X2 | -- --    |             |       |       |    |
| X3 | -0.02    | -- --       |       |       |    |
| X4 | -- 0.03  | -- --       |       |       |    |
| X5 | 0.01     | -- -- -- -- |       |       |    |
| X6 | 0.02     | -- --       | -0.01 | -0.02 | -- |
| X7 | -- -- -- | -0.01       | --    | 0.02  |    |

Completely Standardized Expected Change for THETA-DELTA





|      |    |       |       |      |       |      |
|------|----|-------|-------|------|-------|------|
| 0.07 | K1 | -0.01 | 0.05  | 0.25 | -0.16 | 0.29 |
| 0.22 | K2 | -0.33 | -0.22 | 0.09 | -0.08 | 0.48 |

KSI

|      |    |       |      |       |      |       |      |
|------|----|-------|------|-------|------|-------|------|
|      |    | Y7    | Y8   | Y9    | Y10  | Y11   |      |
| X1   |    |       |      |       |      |       |      |
|      | K1 | -0.12 | 0.19 | -0.33 | 0.31 | -0.29 | 0.38 |
| 0.03 | K2 | -0.27 | 0.15 | -0.77 | 0.91 | -0.22 |      |

KSI

|      |    |      |      |       |      |       |
|------|----|------|------|-------|------|-------|
|      |    | X2   | X3   | X4    | X5   | X6    |
| X7   |    |      |      |       |      |       |
|      | K1 | 0.44 | 0.23 | -0.08 | 0.33 | -0.01 |
| 0.57 | K2 | 0.28 | 0.01 | -0.19 | 0.63 | 0.66  |
| 0.66 |    |      |      |       |      |       |

TI

Standardized Solution

LAMBDA-Y

|     |      |      |      |
|-----|------|------|------|
|     | E1   | E2   | E3   |
| Y1  | 0.46 | --   | --   |
| Y2  | 0.45 | --   | --   |
| Y3  | 0.46 | --   | --   |
| Y4  | 0.40 | --   | --   |
| Y5  | --   | 0.48 | --   |
| Y6  | --   | 0.38 | --   |
| Y7  | --   | 0.36 | --   |
| Y8  | --   | 0.40 | --   |
| Y9  | --   | --   | 0.27 |
| Y10 | --   | --   | 0.34 |
| Y11 | --   | --   | 0.47 |

LAMBDA-X

|    |      |    |
|----|------|----|
|    | K1   | K2 |
| X1 | 0.48 | -- |
| X2 | 0.52 | -- |

|    |      |      |
|----|------|------|
| X3 | 0.49 | --   |
| X4 | 0.44 | --   |
| X5 | --   | 0.55 |
| X6 | --   | 0.49 |
| X7 | --   | 0.44 |

## BETA

|    | E1       | E2    | E3 |
|----|----------|-------|----|
| E1 | -- -- -- |       |    |
| E2 | -- -- -- |       |    |
| E3 | 0.37     | -0.07 | -- |

## GAMMA

|    | K1   | K2   |
|----|------|------|
| E1 | 0.89 | 0.06 |
| E2 | 0.48 | 0.36 |
| E3 | 0.33 | 0.42 |

## Correlation Matrix of ETA and KSI

|    | E1   | E2   | E3   | K1   | K2   |
|----|------|------|------|------|------|
| E1 | 1.00 |      |      |      |      |
| E2 | 0.77 | 1.00 |      |      |      |
| E3 | 1.01 | 0.82 | 1.00 |      |      |
| K1 | 0.95 | 0.81 | 1.02 | 1.00 |      |
| K2 | 0.90 | 0.81 | 1.01 | 0.94 | 1.00 |

## PSI

Note: This matrix is diagonal.

|  | E1   | E2   | E3    |
|--|------|------|-------|
|  | 0.10 | 0.32 | -0.07 |

## Regression Matrix ETA on KSI (Standardized)

|    | K1   | K2   |
|----|------|------|
| E1 | 0.89 | 0.06 |
| E2 | 0.48 | 0.36 |
| E3 | 0.63 | 0.42 |

TI

Completely Standardized Solution

## LAMBDA-Y

|     | E1   | E2   | E3   |
|-----|------|------|------|
| Y1  | 0.86 | --   | --   |
| Y2  | 0.87 | --   | --   |
| Y3  | 0.81 | --   | --   |
| Y4  | 0.78 | --   | --   |
| Y5  | --   | 0.86 | --   |
| Y6  | --   | 0.71 | --   |
| Y7  | --   | 0.67 | --   |
| Y8  | --   | 0.88 | --   |
| Y9  | --   | --   | 0.61 |
| Y10 | --   | --   | 0.68 |
| Y11 | --   | --   | 0.86 |

## LAMBDA-X

|    | K1   | K2   |
|----|------|------|
| X1 | 0.88 | --   |
| X2 | 0.93 | --   |
| X3 | 0.87 | --   |
| X4 | 0.77 | --   |
| X5 | --   | 0.85 |
| X6 | --   | 0.93 |
| X7 | --   | 0.88 |

## BETA

|    | E1   | E2    | E3 |
|----|------|-------|----|
| E1 | --   | --    | -- |
| E2 | --   | --    | -- |
| E3 | 0.37 | -0.07 | -- |

## GAMMA

|    | K1   | K2   |
|----|------|------|
| E1 | 0.89 | 0.06 |
| E2 | 0.48 | 0.36 |
| E3 | 0.33 | 0.42 |

## Correlation Matrix of ETA and KSI

|    | E1   | E2   | E3 | K1 | K2 |
|----|------|------|----|----|----|
| E1 | 1.00 |      |    |    |    |
| E2 | 0.77 | 1.00 |    |    |    |

|    |      |      |      |      |      |
|----|------|------|------|------|------|
| E3 | 1.01 | 0.82 | 1.00 |      |      |
| K1 | 0.95 | 0.81 | 1.02 | 1.00 |      |
| K2 | 0.90 | 0.81 | 1.01 | 0.94 | 1.00 |

PSI

Note: This matrix is diagonal.

|       | E1   | E2   | E3    |  |  |
|-------|------|------|-------|--|--|
| ----- |      |      |       |  |  |
|       | 0.10 | 0.32 | -0.07 |  |  |

THETA-EPS

|       | Y1    | Y2    | Y3    | Y4    | Y5    |
|-------|-------|-------|-------|-------|-------|
| Y6    |       |       |       |       |       |
| ----- |       |       |       |       |       |
| Y1    | 0.27  |       |       |       |       |
| Y2    | 0.07  | 0.25  |       |       |       |
| Y3    | --    | 0.03  | 0.34  |       |       |
| Y4    | --    | --    | 0.18  | 0.39  |       |
| Y5    | 0.03  | --    | 0.11  | 0.29  | 0.26  |
| Y6    | 0.05  | --    | --    | 0.13  | --    |
| Y7    | -0.03 | --    | --    | 0.08  | --    |
| Y8    | --    | --    | -0.04 | -0.07 | -0.33 |
| Y9    | --    | 0.02  | --    | 0.06  | 0.09  |
| Y10   | 0.03  | -0.01 | 0.06  | 0.04  | --    |
| Y11   | --    | --    | 0.01  | -0.04 | -0.03 |

THETA-EPS

|       | Y7    | Y8   | Y9   | Y10  | Y11  |
|-------|-------|------|------|------|------|
| ----- |       |      |      |      |      |
| Y7    | 0.55  |      |      |      |      |
| Y8    | -0.20 | 0.23 |      |      |      |
| Y9    | 0.07  | 0.25 | 0.63 |      |      |
| Y10   | -0.04 | 0.24 | 0.37 | 0.53 |      |
| Y11   | --    | 0.04 | --   | --   | 0.26 |

THETA-DELTA-EPS

|       | Y1    | Y2    | Y3    | Y4    | Y5    |
|-------|-------|-------|-------|-------|-------|
| Y6    |       |       |       |       |       |
| ----- |       |       |       |       |       |
| X1    | --    | 0.01  | -0.05 | -0.02 | --    |
| X2    | --    | --    | -0.06 | --    | -0.05 |
| X3    | --    | -0.04 | 0.05  | 0.11  | 0.06  |
| X4    | 0.05  | --    | 0.14  | 0.23  | 0.18  |
| X5    | --    | --    | -0.12 | -0.16 | -0.20 |
| X6    | 0.07  | 0.09  | --    | --    | --    |
| X7    | -0.02 | --    | --    | --    | -0.02 |

## THETA-DELTA-EPS

|    | Y7             | Y8       | Y9       | Y10   | Y11 |
|----|----------------|----------|----------|-------|-----|
| X1 | -- -- -0.04    | -0.03    | 0.11     |       |     |
| X2 | -- -- -- --    |          |          |       |     |
| X3 | -- -- 0.06     | 0.09     | -0.02    |       |     |
| X4 | 0.12           | -- 0.07  | 0.12     | -0.04 |     |
| X5 | -- -- -- -0.16 |          | --       |       |     |
| X6 | -- -0.05       | -- -0.11 | 0.01     |       |     |
| X7 | 0.06           | -0.11    | -- -0.11 | --    |     |

## THETA-DELTA

| X6 | X1       | X2      | X3         | X4       | X5 |
|----|----------|---------|------------|----------|----|
| X1 | 0.23     |         |            |          |    |
| X2 | 0.04     | 0.14    |            |          |    |
| X3 | -- 0.04  | 0.24    |            |          |    |
| X4 | -0.05    | -- 0.18 | 0.41       |          |    |
| X5 | -- -0.01 | -0.08   | -0.12      | 0.28     |    |
| X6 | -- -0.05 | -0.02   | -- -- 0.14 |          |    |
| X7 | -0.11    | -0.08   | -0.07      | -- -0.09 | -- |

## THETA-DELTA

|    | X7   |
|----|------|
| X7 | 0.23 |

## Regression Matrix ETA on KSI (Standardized)

|    | K1   | K2   |
|----|------|------|
| E1 | 0.89 | 0.06 |
| E2 | 0.48 | 0.36 |
| E3 | 0.63 | 0.42 |

TI

## Total and Indirect Effects

## Total Effects of KSI on ETA

|               | K1   | K2   |
|---------------|------|------|
| E1            | 0.89 | 0.06 |
| (0.14) (0.14) |      |      |
|               | 6.27 | 0.42 |

|               |      |      |
|---------------|------|------|
| E2            | 0.48 | 0.36 |
| (0.12) (0.12) |      |      |
|               | 3.92 | 3.02 |
| E3            | 0.63 | 0.42 |
| (0.13) (0.12) |      |      |
|               | 4.85 | 3.34 |

Indirect Effects of KSI on ETA

|               | K1    | K2    |
|---------------|-------|-------|
| -----         |       |       |
| E1            | -- -- |       |
| E2            | -- -- |       |
| E3            | 0.30  | 0.00  |
| (0.15) (0.06) |       |       |
|               | 2.04  | -0.08 |

Total Effects of ETA on ETA

|               | E1       | E2    | E3 |
|---------------|----------|-------|----|
| -----         |          |       |    |
| E1            | -- -- -- |       |    |
| E2            | -- -- -- |       |    |
| E3            | 0.37     | -0.07 | -- |
| (0.14) (0.06) |          |       |    |
|               | 2.65     | -1.21 |    |

Largest Eigenvalue of B\*B' (Stability Index) is 0.143

Total Effects of ETA on Y

|        | E1    | E2    | E3 |
|--------|-------|-------|----|
| -----  |       |       |    |
| Y1     | 0.46  | -- -- |    |
| Y2     | 0.45  | -- -- |    |
| (0.01) |       |       |    |
|        | 32.62 |       |    |
| Y3     | 0.46  | -- -- |    |

|        |        |        |       |       |
|--------|--------|--------|-------|-------|
| (0.02) |        | 23.71  |       |       |
|        | Y4     | 0.40   | --    | --    |
| (0.02) |        | 22.81  |       |       |
|        | Y5     | --     | 0.48  | --    |
|        | Y6     | --     | 0.38  | --    |
| (0.02) |        |        |       | 16.98 |
|        | Y7     | --     | 0.36  | --    |
| (0.02) |        |        |       | 16.07 |
|        | Y8     | --     | 0.40  | --    |
| (0.03) |        |        |       | 16.06 |
|        | Y9     | 0.10   | -0.02 | 0.27  |
| (0.04) | (0.02) | 2.65   | -1.21 |       |
|        | Y10    | 0.13   | -0.03 | 0.34  |
| (0.05) | (0.02) | (0.01) |       |       |
|        |        | 2.64   | -1.21 | 23.19 |
|        | Y11    | 0.17   | -0.03 | 0.47  |
| (0.06) | (0.03) | (0.03) |       |       |
|        |        | 2.67   | -1.22 | 17.63 |

Indirect Effects of ETA on Y

|       |       | E1 | E2 | E3 |
|-------|-------|----|----|----|
| ----- | ----- |    |    |    |
|       | Y1    | -- | -- | -- |
| Y2    |       | -- | -- | -- |
|       | Y3    | -- | -- | -- |
|       | Y4    | -- | -- | -- |
|       | Y5    | -- | -- | -- |

|               |      |       |    |
|---------------|------|-------|----|
| Y6            | --   | --    | -- |
| Y7            | --   | --    | -- |
| Y8            | --   | --    | -- |
| Y9            | 0.10 | -0.02 | -- |
| (0.04) (0.02) | 2.65 | -1.21 |    |
| Y10           | 0.13 | -0.03 | -- |
| (0.05) (0.02) | 2.64 | -1.21 |    |
| Y11           | 0.17 | -0.03 | -- |
| (0.06) (0.03) | 2.67 | -1.22 |    |

## Total Effects of KSI on Y

|               | K1   | K2   |
|---------------|------|------|
| -----         |      |      |
| Y1            | 0.41 | 0.03 |
| (0.07) (0.07) | 6.27 | 0.42 |
| Y2            | 0.41 | 0.03 |
| (0.06) (0.06) | 6.25 | 0.42 |
| Y3            | 0.41 | 0.03 |
| (0.07) (0.06) | 6.12 | 0.42 |
| Y4            | 0.36 | 0.02 |
| (0.06) (0.06) | 6.11 | 0.42 |
| Y5            | 0.23 | 0.17 |
| (0.06) (0.06) | 3.92 | 3.02 |
| Y6            | 0.18 | 0.14 |
| (0.05) (0.05) | 3.91 | 2.97 |
| Y7            | 0.17 | 0.13 |



|               |      |      |
|---------------|------|------|
| (0.04) (0.04) | 3.89 | 2.97 |
| Y8            | 0.19 | 0.14 |
| (0.05) (0.05) | 4.01 | 2.97 |
| Y9            | 0.17 | 0.11 |
| (0.03) (0.03) | 4.85 | 3.34 |
| Y10           | 0.21 | 0.14 |
| (0.04) (0.04) | 4.94 | 3.33 |
| Y11           | 0.29 | 0.19 |
| (0.06) (0.06) | 4.99 | 3.37 |

TI

## Standardized Total and Indirect Effects

## Standardized Total Effects of KSI on ETA

|    | K1   | K2   |
|----|------|------|
| E1 | 0.89 | 0.06 |
| E2 | 0.48 | 0.36 |
| E3 | 0.63 | 0.42 |

## Standardized Indirect Effects of KSI on ETA

|    | K1   | K2   |
|----|------|------|
| E1 | --   | --   |
| E2 | --   | --   |
| E3 | 0.30 | 0.00 |

## Standardized Total Effects of ETA on ETA

|    | E1   | E2    | E3 |
|----|------|-------|----|
| E1 | --   | --    | -- |
| E2 | --   | --    | -- |
| E3 | 0.37 | -0.07 | -- |

## Standardized Total Effects of ETA on Y

|     | E1   | E2    | E3   |
|-----|------|-------|------|
| Y1  | 0.46 | --    | --   |
| Y2  | 0.45 | --    | --   |
| Y3  | 0.46 | --    | --   |
| Y4  | 0.40 | --    | --   |
| Y5  | --   | 0.48  | --   |
| Y6  | --   | 0.38  | --   |
| Y7  | --   | 0.36  | --   |
| Y8  | --   | 0.40  | --   |
| Y9  | 0.10 | -0.02 | 0.27 |
| Y10 | 0.13 | -0.03 | 0.34 |
| Y11 | 0.17 | -0.03 | 0.47 |

## Completely Standardized Total Effects of ETA on Y

|     | E1   | E2    | E3   |
|-----|------|-------|------|
| Y1  | 0.86 | --    | --   |
| Y2  | 0.87 | --    | --   |
| Y3  | 0.81 | --    | --   |
| Y4  | 0.78 | --    | --   |
| Y5  | --   | 0.86  | --   |
| Y6  | --   | 0.71  | --   |
| Y7  | --   | 0.67  | --   |
| Y8  | --   | 0.88  | --   |
| Y9  | 0.23 | -0.05 | 0.61 |
| Y10 | 0.25 | -0.05 | 0.68 |
| Y11 | 0.32 | -0.06 | 0.86 |

## Standardized Indirect Effects of ETA on Y

|     | E1   | E2    | E3 |
|-----|------|-------|----|
| Y1  | --   | --    | -- |
| Y2  | --   | --    | -- |
| Y3  | --   | --    | -- |
| Y4  | --   | --    | -- |
| Y5  | --   | --    | -- |
| Y6  | --   | --    | -- |
| Y7  | --   | --    | -- |
| Y8  | --   | --    | -- |
| Y9  | 0.10 | -0.02 | -- |
| Y10 | 0.13 | -0.03 | -- |
| Y11 | 0.17 | -0.03 | -- |

## Completely Standardized Indirect Effects of ETA on Y

| E1 | E2 | E3 |
|----|----|----|
|----|----|----|

| ----- | ----- |       |    |  |
|-------|-------|-------|----|--|
| Y1    | --    | --    | -- |  |
| Y2    | --    | --    | -- |  |
| Y3    | --    | --    | -- |  |
| Y4    | --    | --    | -- |  |
| Y5    | --    | --    | -- |  |
| Y6    | --    | --    | -- |  |
| Y7    | --    | --    | -- |  |
| Y8    | --    | --    | -- |  |
| Y9    | 0.23  | -0.05 | -- |  |
| Y10   | 0.25  | -0.05 | -- |  |
| Y11   | 0.32  | -0.06 | -- |  |

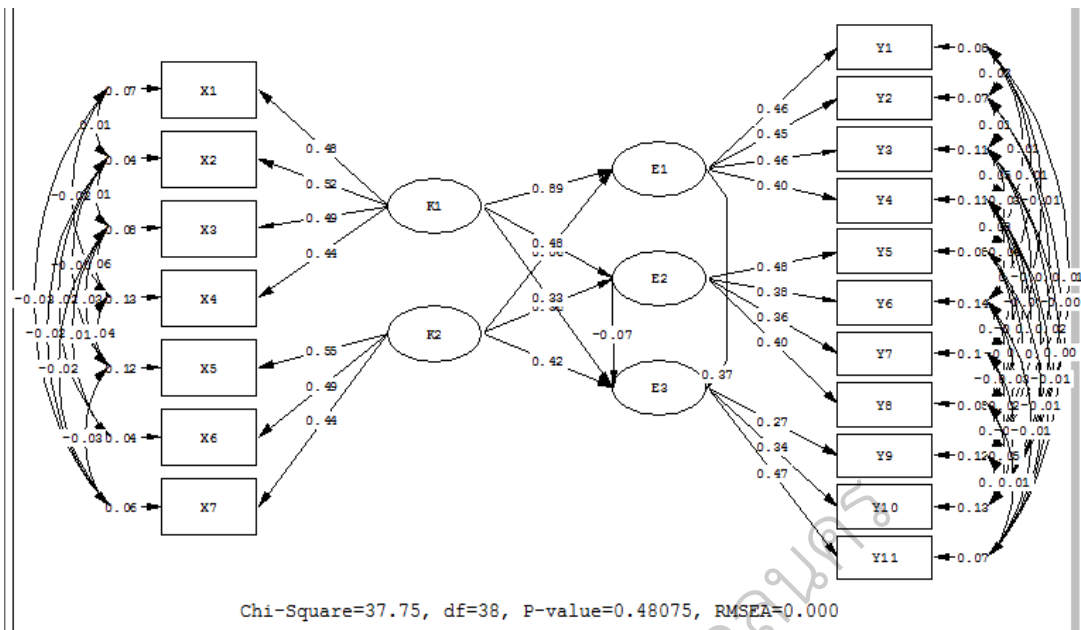
## Standardized Total Effects of KSI on Y

| ----- | ----- | K1   | K2 |
|-------|-------|------|----|
| Y1    | 0.41  | 0.03 |    |
| Y2    | 0.41  | 0.03 |    |
| Y3    | 0.41  | 0.03 |    |
| Y4    | 0.36  | 0.02 |    |
| Y5    | 0.23  | 0.17 |    |
| Y6    | 0.18  | 0.14 |    |
| Y7    | 0.17  | 0.13 |    |
| Y8    | 0.19  | 0.14 |    |
| Y9    | 0.17  | 0.11 |    |
| Y10   | 0.21  | 0.14 |    |
| Y11   | 0.29  | 0.19 |    |

## Completely Standardized Total Effects of KSI on Y

| ----- | ----- | K1   | K2 |
|-------|-------|------|----|
| Y1    | 0.76  | 0.05 |    |
| Y2    | 0.77  | 0.05 |    |
| Y3    | 0.73  | 0.05 |    |
| Y4    | 0.70  | 0.05 |    |
| Y5    | 0.41  | 0.31 |    |
| Y6    | 0.34  | 0.25 |    |
| Y7    | 0.32  | 0.24 |    |
| Y8    | 0.42  | 0.31 |    |
| Y9    | 0.38  | 0.25 |    |
| Y10   | 0.43  | 0.29 |    |
| Y11   | 0.54  | 0.36 |    |

Time used: 0.375 Seconds



มหาวิทยาลัยราชภัฏสุราษฎร์ธานี