Purpose Measure for Youth

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**Abstract**

We had four highly used instruments that test for purpose in life. They are the Short-Form purpose subscale of the Psychological Well-being scale (Ryff, 1989), Sense of Identity subscale of the APSI (Jaffe, 1998), Life Engagement Test (Scheier et al., 2006) and the Meaning in Life Questionnaire (Steger, 2006). All of these have been used extensively in studies assessing youth purpose. However, none of these scales have been psychometrically analyzed for use on adolescents.

We first analyzed each of the scales using CFA Target Rotation to ascertain whether the factors suggested by the authors of the scales held up in our sample. In the case where they did not hold up we conducted a Parallel Analysis with scree plots as well and a Principal Component Analysis. Based upon this analysis we conducted an EFA looking for simple structure and then conducted another CFA sometimes using Target Rotation as well for confirmatory purposes.

Results:

APSI: Despite the fact that this scale is used widely to measure Sense of Identity in adolescence a review of the literature shows that this scale has never been analysed properly for it psychometric properties. Because it contains many of the ideas that are seen as contributing to a sense of purpose such as values and morals (Heine et al. 2006 ), understanding of self and fit in the world (Steger,20??, Wong, 20??), we see this as a scale that represents purpose in life. In any event based on the literature and how this measure is used in practice (Lounsbury et al., 2007, Lounsbury et al., 2004) we tested a one factor model using Confirmatory Factor Analysis (CFA). The fit was poor,  for the model was 20 with a  = 290.059, *p* < .001; CFI =0.91, TLI = 0.874, RMSEA = 0.07 [90% CI = 0.116, 0.143]. Loadings (see Table 1) were also problematic item six (I don’t know where I fit in the world) did not load on the factor (0.07) at all and question three (I have a set of basic beliefs and values or moral standards) marginally (0.22).

We then conducted Parallel Analysis using Maximum Likelihood which suggested that there were four factors in the measure. Eigenvalues analysis suggested that there was only one factor. The first factor had and eigenvalue of 3.7 wits SD of 2.03 and explained 51% of the variance, the second factor had an eigenvalue of .3 and SD pf 1.13 and explained 16% of the variance, the third factor had an eigenvalue of .18 and SD of .06 and explained 10% of the variance. The fourth, fifth, sixth, seventh and eighth factors had marginally negative eigenvalues, and explaining 16% of the variance. Given the inclusivity of these results an Exploratory Factor Analysis (EFA) was conducted.

An initial analysis with two factors was conducted. The fit was again poor,  for the model was 13 with a  = 151.85, *p* < .001; CFI =0.95, TLI = 0.9, RMSEA = 0.11 [90% CI = 0.099, 0.132]. Loadings (see Table 2) were also problematic item six (I don’t know where I fit in the world) loaded fully (1.00) on two but question three (I have a set of basic beliefs and values or moral standards) marginally (-0.31).

An analysis with three factors was conducted. The resulted in a better, yet not optimal fit of the data.  for the model was 7 with a  = 62.73, p < .001; CFI =0.98, TLI = 0.92, RMSEA = 0.1 [90% CI = 0.078, 0.123]. Loadings (see Table 3) were still problematic whilst item six (I don’t know where I fit in the world) loaded fully (.99) on factor two, item five (I have a clear set of personal values or moral standards) was now loading on factor three (.84) and item three (I have a set of basic beliefs and values or moral standards) cross loaded on factor two and three (-.316 and -.39).

Based on the Parallel Analysis that suggested there were four factors an analysis with four factors was conducted. This resulted in an over fit of the data.  for the model was two with a  = .24, p = .57; CFI =1.00, TLI = .00, RMSEA = 0.1 [90% CI = NA, 0.059]. Loadings (see Table 4) were still problematic whilst item six (I don’t know where I fit in the world) loaded fully (.99) on factor one (nothing else loaded on that factor), item one (I have a definite sense of purpose in life) was now cross loading on factors two (.32) and four (.57), item five (I have a clear set of personal values or moral standards) was now cross loading on factor three (.37) and four (.52), item three (I have a set of basic beliefs and values or moral standards) loaded on factor three (.67).

Based on this analysis we determined that items one, two, four, five, seven and eight may be a factor on their own. We therefore conducted an EFA with only these items. This analysis resulted in an excellent fit to data.  for the model was 9 with a  = 125.49, p = .000; CFI =.97, TLI = .951, RMSEA = 0.106 [90% CI = 0.09 0.122] – this was expected to be high because it is effected by a small . All items loaded well onto one factor (see Table 5). This indicated that the remaining items three, and six were causing problems in the overall fit of the measure and represented either an independent factor or multiple factors and would not fit neatly into an additional factor.

We nonetheless conducted a Target Rotation (TR) to see if a two factor model could be made to fit the data using that method. We set items one, two, four, five, seven and eight onto one factor and items three, five and six onto the other. This analysis resulted in a decent yet not excellent fit to data.  for the model was 13 with a  = 151.85, p = <.000; CFI =.95, TLI = .9, RMSEA = 0.115 [90% CI = 0.099, 0.132. All items for factor one loaded well (see table 7). Item three was had a loading of .99 on factor two. Item six however was still not loading well on the second item. This indicated that items three (I have a set of basic beliefs and values that guide my actions and decisions) and six (I don't know where I fit in the world) represent distinct factors.



PWB

There are three version of Ryff’s Psychological Wellbeing (PWB) Scale, which measures the following constructs: Self-acceptance, Positive Relations with others, Autonomy, Environmental Mastery, Purpose in Life and Personal Growth. The longest version has 84 items in all (14 for each construct), the medium length one has 54 items (nine items per construct) and the short version has 18 items (three per construct). In this study we used the medium length survey that measures for Purpose in Life (Ryff, C., & Keyes, C. (1995). The structure of psychological well-being revisited. Journal of Personality and Social Psychology, 69, 719–727.) because it seemed to contain enough of the aspects of purpose as it relates the construct of interest. Because the author maintains that this scale tests one construct, purpose in life, we initially tested for Cronbach's alpha of internal consistency which was in the good range at .78. We then conducted an Exploratory Structural Equation Modelling (ESOM) using Target Rotation specifying a one factor model. This analysis resulted in a very poor fit to data.  for the model was 27 with a  = 584.980, p = <.000; CFI =.72, TLI = .63, RMSEA = 0.159 [90% CI = 0.15, 0.17]. Items seven, eight and nine all loaded poorly on the factor (see table 7).

Table 7. One Factor Model CFA PWB

|  |  |  |
| --- | --- | --- |
|  | Item | std.nox |
| 1 | PWB 1 | 0.63 |
| 2 | PWB 2 | 0.52 |
| 3 | PWB 3 | 0.76 |
| 4 | PWB 4 | 0.55 |
| 5 | PWB 5 | -0.78 |
| 6 | PWB 6 | 0.52 |
| 7 | PWB 7 | 0.16 |
| 8 | PWB 8 | 0.20 |
| 9 | PWB 9 | 0.44 |
|  |  |  |

Given these results that showed that the PWB purpose scale did not represent one factor we conducted a Parallel Analysis using Maximum Likelihood which suggested that there were four factors in the measure. Eigenvalues analysis suggested that there was only two factors. The first factor had and eigenvalue of 2.7 wits SD of 1.8 and explained 37% of the variance, the second factor had an eigenvalue of .7 and SD of 1.3 and explained 18% of the variance, the third factor had an eigenvalue of .3 and SD of 1.0 and explained 11% of the variance. The fourth factor had an eigenvalue of .06 and SD of .82 and explained .07% of the variance. The fifth, sixth, seventh and eighth factors had marginally negative eigenvalues, and explaining collectively 25% of the variance. Given the inclusivity of these results an Exploratory Factor Analysis (EFA) was conducted.

We first conducted an EFA that extracted two factors . This analysis resulted in a very decent fit to data.  for the model was 19 with a  = 182.15, p = <.000; CFI =.92, TLI = .84, RMSEA = 0.10 [90% CI = 0.089 0.116]. Items seven, eight now load well onto the second factor, but items two, four, six and nine have either poor or moderate loadings on factor one (see table 8).

Table 8:

Table 8. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | ML1 | ML2 | h2 | u2 | com |
| PWB 1 | **0.68** | -0.16 | 0.46 | 0.54 | 1.11 |
| PWB 2 | **0.50** | 0.08 | 0.27 | 0.73 | 1.06 |
| PWB 3 | **0.77** | -0.03 | 0.59 | 0.41 | 1.00 |
| PWB 4 | **0.49** | 0.28 | 0.36 | 0.64 | 1.58 |
| PWB 5 | **-0.78** | 0.00 | 0.61 | 0.39 | 1.00 |
| PWB 6 | **0.47** | 0.25 | 0.32 | 0.68 | 1.51 |
| PWB 7 | -0.03 | **0.87** | 0.74 | 0.26 | 1.00 |
| PWB 8 | 0.06 | **0.60** | 0.38 | 0.62 | 1.02 |
| PWB 9 | **0.43** | 0.03 | 0.19 | 0.81 | 1.01 |
| SS loadings | 2.61 | 1.32 |  |  |  |
| ML1 | 1.00 | 0.15 |  |  |  |
| ML2 | 0.15 | 1.00 |  |  |  |

This indicated that there maybe three factors and therefore we conducted an EFA this time extracting three factors which resulted in a better fit.  for the model was 12 with a  = 60.05, p = <.000; CFI =.97, TLI = .93, RMSEA = 0.10 [90% CI = 0.053 0.088]. The loadings were still poor however with item number one only loading marginally well and items four and nine not loading well on any of the factors.

Table 9. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | ML1 | ML2 | ML3 | h2 | u2 | com |
| PWB 1 | **0.52** | -0.18 | 0.26 | 0.47 | 0.53 | 1.77 |
| PWB 2 | 0.00 | 0.04 | **0.85** | 0.73 | 0.27 | 1.01 |
| PWB 3 | **0.78** | -0.05 | 0.02 | 0.61 | 0.39 | 1.01 |
| PWB 4 | **0.35** | 0.26 | 0.23 | 0.36 | 0.64 | 2.64 |
| PWB 5 | **-0.79** | 0.01 | -0.02 | 0.64 | 0.36 | 1.00 |
| PWB 6 | **0.60** | 0.25 | -0.15 | 0.39 | 0.61 | 1.48 |
| PWB 7 | -0.04 | **0.85** | 0.04 | 0.73 | 0.27 | 1.01 |
| PWB 8 | 0.07 | **0.61** | 0.01 | 0.39 | 0.61 | 1.03 |
| PWB 9 | 0.20 | 0.01 | **0.35** | 0.24 | 0.76 | 1.59 |
| SS loadings | 2.15 | 1.29 | 1.12 |  |  |  |
| ML1 | 1.00 | 0.15 | 0.50 |  |  |  |
| ML2 | 0.15 | 1.00 | 0.11 |  |  |  |
| ML3 | 0.50 | 0.11 | 1.00 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | ML1 | ML2 | ML3 | ML4 | h2 | u2 | com |
| PWB 1 | 0.13 | -0.21 | **0.50** | **0.35** | 0.58 | 0.42 | 2.32 |
| PWB 2 | -0.01 | 0.08 | **0.77** | -0.05 | 0.59 | 0.41 | 1.03 |
| PWB 3 | **0.84** | -0.06 | -0.04 | 0.03 | 0.69 | 0.31 | 1.01 |
| PWB 4 | **0.49** | 0.29 | 0.17 | -0.17 | 0.44 | 0.56 | 2.18 |
| PWB 5 | **-0.61** | 0.02 | -0.11 | -0.17 | 0.59 | 0.41 | 1.23 |
| PWB 6 | 0.17 | 0.24 | -0.02 | **0.60** | 0.59 | 0.41 | 1.50 |
| PWB 7 | -0.04 | **0.81** | 0.02 | 0.04 | 0.66 | 0.34 | 1.01 |
| PWB 8 | 0.03 | **0.63** | 0.00 | 0.07 | 0.42 | 0.58 | 1.03 |
| PWB 9 | 0.25 | 0.03 | **0.37** | -0.15 | 0.28 | 0.72 | 2.16 |
| SS loadings | 1.68 | 1.27 | 1.2 | 0.67 |  |  |  |
| ML1 | 1.00 | 0.14 | 0.61 | 0.48 |  |  |  |
| ML2 | 0.14 | 1.00 | 0.12 | 0.09 |  |  |  |
| ML3 | 0.61 | 0.12 | 1.00 | 0.19 |  |  |  |
| ML4 | 0.48 | 0.09 | 0.19 | 1.00 |  |  |  |

# Table 4: fa2latex

Table 4. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | ML2 | ML1 | ML3 | h2 | u2 | com |
| PWB 1 | **0.62** | 0.07 | -0.19 | 0.43 | 0.57 | 1.21 |
| PWB 3 | **0.78** | 0.00 | 0.14 | 0.64 | 0.36 | 1.06 |
| PWB 4 | **0.45** | 0.10 | 0.25 | 0.33 | 0.67 | 1.69 |
| PWB 5 | **-0.79** | -0.03 | 0.03 | 0.63 | 0.37 | 1.00 |
| PWB 6 | **0.60** | -0.11 | -0.11 | 0.32 | 0.68 | 1.13 |
| PWB 9 | 0.00 | **1.00** | 0.00 | 1.00 | 0.00 | 1.00 |
| SS loadings | 2.18 | 1.04 | 0.13 |  | | |
| ML2 | 1.00 | 0.38 | 0.09 |
| ML1 | 0.38 | 1.00 | 0.11 |
| ML3 | 0.09 | 0.11 | 1.00 |

# Table 5: fa2latex

Table 5. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | ML1 | ML1.1 | ML1.2 | com |
| PWB 7 | **0.72** | 0.52 | 0.48 | 1 |
| PWB 8 | **0.72** | 0.52 | 0.48 | 1 |
| SS loadings | 1.04 |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | ML1 | ML1.1 | ML1.2 | com |
| PWB 2 | **0.34** | 0.12 | 0.88 | 1 |
| PWB 8 | **0.34** | 0.12 | 0.88 | 1 |
| SS loadings | 0.23 |  |  |  |

Table 6: fa2latex

Table 6. Factor Loadings for Exploratory Factor Analysis PWB

# Table 7: fa2latex

Table 7. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | MR1 | MR2 | h2 | u2 | com |
| 1 | **0.69** | 0.20 | 0.46 | 0.54 | 1.17 |
| 2 | **0.51** | -0.06 | 0.27 | 0.73 | 1.02 |
| 3 | **0.78** | 0.07 | 0.59 | 0.41 | 1.02 |
| 4 | **0.50** | -0.25 | 0.36 | 0.64 | 1.48 |
| 5 | **0.79** | 0.04 | 0.61 | 0.39 | 1.00 |
| 6 | **-0.48** | 0.22 | 0.32 | 0.68 | 1.41 |
| 7 | **0.44** | -0.01 | 0.19 | 0.81 | 1.00 |
| 8 | -0.07 | **0.62** | 0.40 | 0.60 | 1.02 |
| 9 | 0.02 | **0.84** | 0.71 | 0.29 | 1.00 |
| SS loadings | 2.65 | 1.27 |  |  |  |
| MR1 | 1.00 | -0.19 |  |  |  |
| MR2 | -0.19 | 1.00 |  |  |  |

# Table 8: fa2latex

Table 8. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | MR1 | MR2 | MR3 | h2 | u2 | com |
| 1 | **0.53** | 0.18 | 0.24 | 0.48 | 0.52 | 1.66 |
| 2 | **0.76** | 0.07 | 0.03 | 0.60 | 0.40 | 1.02 |
| 3 | **0.79** | 0.04 | 0.02 | 0.63 | 0.37 | 1.01 |
| 4 | **-0.71** | 0.21 | 0.27 | 0.44 | 0.56 | 1.49 |
| 5 | 0.04 | **0.82** | -0.04 | 0.67 | 0.33 | 1.01 |
| 6 | 0.27 | -0.29 | **0.31** | 0.38 | 0.62 | 2.97 |
| 7 | -0.06 | **0.63** | 0.00 | 0.42 | 0.58 | 1.02 |
| 8 | 0.01 | -0.12 | **0.71** | 0.54 | 0.46 | 1.06 |
| 9 | 0.09 | -0.05 | **0.48** | 0.29 | 0.71 | 1.09 |
| SS loadings | 2.14 | 1.27 | 1.03 |  |  |  |
| MR1 | 1.00 | -0.19 | 0.59 |  |  |  |
| MR2 | -0.19 | 1.00 | -0.03 |  |  |  |
| MR3 | 0.59 | -0.03 | 1.00 |  |  |  |

# Table 9: fa2latex

Table 9. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | MR1 | MR2 | MR3 | h2 | u2 | com |
| 1 | **0.58** | 0.18 | 0.22 | 0.48 | 0.52 | 1.47 |
| 2 | **0.78** | 0.07 | 0.02 | 0.60 | 0.40 | 1.02 |
| 3 | **0.80** | 0.04 | 0.01 | 0.63 | 0.37 | 1.01 |
| 4 | **-0.64** | 0.21 | 0.26 | 0.44 | 0.56 | 1.54 |
| 5 | 0.10 | **0.84** | -0.02 | 0.67 | 0.33 | 1.03 |
| 6 | -0.01 | **0.64** | 0.01 | 0.42 | 0.58 | 1.00 |
| 7 | 0.13 | -0.14 | **0.64** | 0.54 | 0.46 | 1.18 |
| 8 | **0.31** | -0.30 | 0.27 | 0.38 | 0.62 | 2.97 |
| 9 | 0.17 | -0.06 | **0.43** | 0.29 | 0.71 | 1.36 |
| SS loadings | 2.25 | 1.31 | 0.89 |  |  |  |
| MR1 | 1.00 | -0.27 | 0.45 |  |  |  |
| MR2 | -0.27 | 1.00 | -0.02 |  |  |  |
| MR3 | 0.45 | -0.02 | 1.00 |  |  |  |

# Table 10: fa2latex

Table 10. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | MR1 | MR2 | MR3 | h2 | u2 | com |
| 1 | **0.54** | 0.17 | 0.24 | 0.48 | 0.52 | 1.59 |
| 2 | **0.76** | 0.05 | 0.03 | 0.60 | 0.40 | 1.01 |
| 3 | **0.79** | 0.02 | 0.01 | 0.63 | 0.37 | 1.00 |
| 4 | **-0.68** | 0.23 | 0.27 | 0.44 | 0.56 | 1.56 |
| 5 | 0.09 | **0.83** | -0.03 | 0.67 | 0.33 | 1.03 |
| 6 | -0.02 | **0.64** | 0.00 | 0.42 | 0.58 | 1.00 |
| 7 | 0.26 | -0.30 | 0.30 | 0.38 | 0.62 | 2.95 |
| 8 | 0.02 | -0.13 | **0.70** | 0.54 | 0.46 | 1.07 |
| 9 | 0.09 | -0.06 | **0.47** | 0.29 | 0.71 | 1.11 |
| SS loadings | 2.12 | 1.32 | 1.01 |  |  |  |
| MR1 | 1.00 | -0.23 | 0.58 |  |  |  |
| MR2 | -0.23 | 1.00 | -0.06 |  |  |  |
| MR3 | 0.58 | -0.06 | 1.00 |  |  |  |

Table 11: fa2latex

Table 11. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | MR2 | MR1 | MR3 | h2 | u2 | com |
| X1 | 0.04 | **0.72** | 0.21 | 0.60 | 0.40 | 1.18 |
| X2 | -0.01 | **0.72** | 0.21 | 0.65 | 0.35 | 1.17 |
| X3 | **0.42** | **-0.38** | 0.14 | 0.44 | 0.56 | 2.20 |
| X4 | **0.76** | 0.29 | -0.01 | 0.45 | 0.55 | 1.29 |
| X5 | **0.91** | **0.42** | 0.02 | 0.61 | 0.39 | 1.41 |
| X6 | 0.02 | 0.20 | **0.55** | 0.38 | 0.62 | 1.26 |
| X7 | 0.12 | 0.18 | **0.62** | 0.40 | 0.60 | 1.25 |
| SS loadings | 1.3 | 1.39 | 0.84 |  |  |  |
| MR2 | 1.00 | -0.50 | -0.39 |  |  |  |
| MR1 | -0.50 | 1.00 | 0.23 |  |  |  |
| MR3 | -0.39 | 0.23 | 1.00 |  |  |  |

# Table 12: fa2latex

Table 12. Factor Loadings for Exploratory Factor Analysis PWB

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | MR1 | MR2 | MR3 | h2 | u2 | com |
| 1 | **0.53** | 0.17 | 0.25 | 0.49 | 0.51 | 1.66 |
| 2 | **0.77** | 0.06 | 0.00 | 0.58 | 0.42 | 1.01 |
| 3 | **0.80** | 0.02 | 0.00 | 0.64 | 0.36 | 1.00 |
| 4 | **-0.64** | 0.25 | 0.18 | 0.42 | 0.58 | 1.46 |
| 5 | 0.04 | **0.83** | -0.08 | 0.68 | 0.32 | 1.02 |
| 6 | -0.07 | **0.63** | -0.03 | 0.41 | 0.59 | 1.03 |
| 7 | -0.01 | -0.09 | **0.84** | 0.70 | 0.30 | 1.03 |
| 8 | 0.18 | -0.02 | **0.37** | 0.24 | 0.76 | 1.45 |
| SS loadings | 2 | 1.18 | 0.98 |  |  |  |
| MR1 | 1.00 | -0.13 | 0.54 |  |  |  |
| MR2 | -0.13 | 1.00 | -0.01 |  |  |  |
| MR3 | 0.54 | -0.01 | 1.00 |  |  |  |

Table 1. Two Factor Loadings for CFA PWB

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | lhs | op | rhs | est | se | z | pvalue | ci.lower | ci.upper | fmi |
| 1 | Factor1 | =˜ | PWB 1 | 0.99 | 0.06 | 17.71 | 0.00 | 0.88 | 1.10 | 0.00 |
| 2 | Factor1 | =˜ | PWB 3 | 1.23 | 0.05 | 23.96 | 0.00 | 1.13 | 1.33 | -0.00 |
| 3 | Factor1 | =˜ | PWB 4 | 0.80 | 0.05 | 14.85 | 0.00 | 0.70 | 0.91 | 0.01 |
| 4 | Factor1 | =˜ | PWB 5 | -1.29 | 0.05 | -24.76 | 0.00 | -1.39 | -1.19 | -0.00 |
| 5 | Factor1 | =˜ | PWB 6 | 0.70 | 0.05 | 15.12 | 0.00 | 0.61 | 0.79 | 0.01 |
| 6 | Factor1 | =˜ | PWB 9 | 0.59 | 0.05 | 11.14 | 0.00 | 0.48 | 0.69 | 0.00 |
| 7 | Factor2 | =˜ | PWB 2 | 0.33 | 0.06 | 5.15 | 0.00 | 0.20 | 0.45 | 0.10 |
| 8 | Factor2 | =˜ | PWB 7 | 0.89 | 0.06 | 13.77 | 0.00 | 0.76 | 1.02 | -0.38 |
| 9 | Factor2 | =˜ | PWB 8 | 1.02 | 0.07 | 13.93 | 0.00 | 0.88 | 1.16 | -0.36 |
| 10 | PWB 1 | ˜˜ | PWB 1 | 1.62 | 0.09 | 17.65 | 0.00 | 1.44 | 1.81 | 0.00 |
| 11 | PWB 3 | ˜˜ | PWB 3 | 0.99 | 0.07 | 13.50 | 0.00 | 0.85 | 1.14 | -0.00 |
| 12 | PWB 4 | ˜˜ | PWB 4 | 1.65 | 0.09 | 18.46 | 0.00 | 1.48 | 1.83 | 0.01 |
| 13 | PWB 5 | ˜˜ | PWB 5 | 0.95 | 0.08 | 12.62 | 0.00 | 0.80 | 1.10 | -0.00 |
| 14 | PWB 6 | ˜˜ | PWB 6 | 1.20 | 0.07 | 18.45 | 0.00 | 1.07 | 1.33 | 0.01 |
| 15 | PWB 9 | ˜˜ | PWB 9 | 1.70 | 0.09 | 19.34 | 0.00 | 1.53 | 1.87 | 0.00 |
| 16 | PWB 2 | ˜˜ | PWB 2 | 1.97 | 0.10 | 19.53 | 0.00 | 1.77 | 2.17 | 0.02 |
| 17 | PWB 7 | ˜˜ | PWB 7 | 0.85 | 0.10 | 8.45 | 0.00 | 0.66 | 1.05 | -0.49 |
| 18 | PWB 8 | ˜˜ | PWB 8 | 0.90 | 0.13 | 6.91 | 0.00 | 0.65 | 1.16 | -0.47 |
| 19 | Factor1 | ˜˜ | Factor1 | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 20 | Factor2 | ˜˜ | Factor2 | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 21 | Factor1 | ˜˜ | Factor2 | 0.27 | 0.05 | 5.75 | 0.00 | 0.18 | 0.36 | 0.10 |
| 22 | PWB 1 | ˜1 |  | 3.90 | 0.06 | 69.04 | 0.00 | 3.79 | 4.01 | 0.00 |
| 23 | PWB 3 | ˜1 |  | 4.15 | 0.06 | 74.92 | 0.00 | 4.04 | 4.26 | 0.00 |
| 24 | PWB 4 | ˜1 |  | 4.02 | 0.05 | 75.79 | 0.00 | 3.92 | 4.13 | 0.00 |
| 25 | PWB 5 | ˜1 |  | 2.88 | 0.06 | 50.88 | 0.00 | 2.77 | 2.99 | 0.00 |
| 26 | PWB 6 | ˜1 |  | 4.50 | 0.05 | 98.96 | 0.00 | 4.41 | 4.59 | 0.00 |
| 27 | PWB 9 | ˜1 |  | 4.80 | 0.05 | 95.93 | 0.00 | 4.70 | 4.90 | 0.00 |
| 28 | PWB 2 | ˜1 |  | 3.87 | 0.05 | 76.68 | 0.00 | 3.77 | 3.97 | 0.00 |
| 29 | PWB 7 | ˜1 |  | 4.55 | 0.04 | 101.16 | 0.00 | 4.46 | 4.63 | 0.00 |
| 30 | PWB 8 | ˜1 |  | 4.36 | 0.05 | 89.36 | 0.00 | 4.27 | 4.46 | 0.00 |
| 31 | Factor1 | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 32 | Factor2 | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |

Table 3. Second Order Model CFA PWB

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | lhs | op | rhs | est | se | z | pvalue | ci.lower | ci.upper | fmi |
| 1 | F1 | =˜ | PWB 1 | 1.04 | 0.06 | 18.63 | 0.00 | 0.93 | 1.15 | 0.02 |
| 2 | F1 | =˜ | PWB 3 | 1.21 | 0.05 | 23.23 | 0.00 | 1.10 | 1.31 | -0.01 |
| 3 | F1 | =˜ | PWB 5 | -1.30 | 0.05 | -24.82 | 0.00 | -1.40 | -1.20 | -0.00 |
| 4 | F1 | =˜ | PWB 6 | 0.69 | 0.05 | 14.93 | 0.00 | 0.60 | 0.78 | 0.01 |
| 5 | F2 | =˜ | PWB 4 | 0.70 | 0.07 | 10.03 | 0.00 | 0.56 | 0.83 | 0.21 |
| 6 | F2 | =˜ | PWB 7 | 0.90 | 0.05 | 16.40 | 0.00 | 0.79 | 1.01 | -0.08 |
| 7 | F2 | =˜ | PWB 8 | 0.95 | 0.06 | 16.40 | 0.00 | 0.84 | 1.07 | -0.12 |
| 8 | F3 | =˜ | PWB 2 | 0.99 | 0.06 | 15.45 | 0.00 | 0.86 | 1.11 | 0.00 |
| 9 | F3 | =˜ | PWB 9 | 0.80 | 0.06 | 13.52 | 0.00 | 0.68 | 0.92 | 0.00 |
| 10 | PWB 1 | ˜˜ | PWB 1 | 1.52 | 0.09 | 16.76 | 0.00 | 1.34 | 1.69 | 0.03 |
| 11 | PWB 3 | ˜˜ | PWB 3 | 1.05 | 0.08 | 13.92 | 0.00 | 0.90 | 1.20 | -0.02 |
| 12 | PWB 5 | ˜˜ | PWB 5 | 0.92 | 0.08 | 11.93 | 0.00 | 0.77 | 1.07 | -0.01 |
| 13 | PWB 6 | ˜˜ | PWB 6 | 1.21 | 0.07 | 18.39 | 0.00 | 1.08 | 1.33 | 0.01 |
| 14 | PWB 4 | ˜˜ | PWB 4 | 1.82 | 0.11 | 16.25 | 0.00 | 1.60 | 2.04 | 0.15 |
| 15 | PWB 7 | ˜˜ | PWB 7 | 0.84 | 0.08 | 10.35 | 0.00 | 0.68 | 1.00 | -0.12 |
| 16 | PWB 8 | ˜˜ | PWB 8 | 1.04 | 0.09 | 11.38 | 0.00 | 0.86 | 1.21 | -0.17 |
| 17 | PWB 2 | ˜˜ | PWB 2 | 1.11 | 0.11 | 10.42 | 0.00 | 0.90 | 1.31 | 0.01 |
| 18 | PWB 9 | ˜˜ | PWB 9 | 1.40 | 0.09 | 15.28 | 0.00 | 1.22 | 1.58 | 0.00 |
| 19 | F1 | ˜˜ | F1 | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 20 | F2 | ˜˜ | F2 | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 21 | F3 | ˜˜ | F3 | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 22 | F1 | ˜˜ | F2 | 0.28 | 0.05 | 5.55 | 0.00 | 0.18 | 0.38 | 0.23 |
| 23 | F1 | ˜˜ | F3 | 0.69 | 0.04 | 16.98 | 0.00 | 0.61 | 0.77 | 0.02 |
| 24 | F2 | ˜˜ | F3 | 0.37 | 0.06 | 6.33 | 0.00 | 0.25 | 0.48 | 0.17 |
| 25 | PWB 1 | ˜1 |  | 3.90 | 0.06 | 69.04 | 0.00 | 3.79 | 4.01 | 0.00 |
| 26 | PWB 3 | ˜1 |  | 4.15 | 0.06 | 74.92 | 0.00 | 4.04 | 4.26 | 0.00 |
| 27 | PWB 5 | ˜1 |  | 2.88 | 0.06 | 50.88 | 0.00 | 2.77 | 2.99 | 0.00 |
| 28 | PWB 6 | ˜1 |  | 4.50 | 0.05 | 98.96 | 0.00 | 4.41 | 4.59 | 0.00 |
| 29 | PWB 4 | ˜1 |  | 4.02 | 0.05 | 75.79 | 0.00 | 3.92 | 4.13 | 0.00 |
| 30 | PWB 7 | ˜1 |  | 4.55 | 0.04 | 101.16 | 0.00 | 4.46 | 4.63 | 0.00 |
| 31 | PWB 8 | ˜1 |  | 4.36 | 0.05 | 89.36 | 0.00 | 4.27 | 4.46 | 0.00 |
| 32 | PWB 2 | ˜1 |  | 3.87 | 0.05 | 76.68 | 0.00 | 3.77 | 3.97 | 0.00 |
| 33 | PWB 9 | ˜1 |  | 4.80 | 0.05 | 95.93 | 0.00 | 4.70 | 4.90 | 0.00 |
| 34 | F1 | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 35 | F2 | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 36 | F3 | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |

Table 4. Bifactor Model CFA PWB

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | lhs | op | rhs | est | se | z | pvalue | ci.lower | ci.upper | fmi |
| 1 | PWB | =˜ | PWB 1 | 0.92 | 0.07 | 12.86 | 0.00 | 0.78 | 1.06 | 0.07 |
| 2 | PWB | =˜ | PWB 2 | 0.38 | 0.10 | 4.01 | 0.00 | 0.19 | 0.57 | 0.11 |
| 3 | PWB | =˜ | PWB 3 | 1.22 | 0.06 | 20.61 | 0.00 | 1.10 | 1.33 | 0.10 |
| 4 | PWB | =˜ | PWB 4 | 0.69 | 0.07 | 9.20 | 0.00 | 0.54 | 0.83 | 0.23 |
| 5 | PWB | =˜ | PWB 5 | -1.27 | 0.06 | -21.48 | 0.00 | -1.38 | -1.15 | 0.05 |
| 6 | PWB | =˜ | PWB 6 | 0.71 | 0.05 | 14.34 | 0.00 | 0.61 | 0.81 | 0.07 |
| 7 | PWB | =˜ | PWB 7 | 0.08 | 0.05 | 1.57 | 0.12 | -0.02 | 0.19 | 0.07 |
| 8 | PWB | =˜ | PWB 8 | 0.18 | 0.06 | 3.20 | 0.00 | 0.07 | 0.29 | 0.04 |
| 9 | PWB | =˜ | PWB 9 | 0.47 | 0.08 | 5.88 | 0.00 | 0.31 | 0.63 | 0.30 |
| 10 | Negative | =˜ | PWB 1 | 0.51 | 0.11 | 4.66 | 0.00 | 0.29 | 0.72 | 0.16 |
| 11 | Negative | =˜ | PWB 2 | 1.30 | 0.21 | 6.33 | 0.00 | 0.90 | 1.70 | 0.34 |
| 12 | Negative | =˜ | PWB 3 | 0.24 | 0.11 | 2.18 | 0.03 | 0.02 | 0.46 | 0.38 |
| 13 | Negative | =˜ | PWB 4 | 0.43 | 0.11 | 3.92 | 0.00 | 0.22 | 0.65 | 0.37 |
| 14 | Negative | =˜ | PWB 5 | -0.27 | 0.11 | -2.44 | 0.01 | -0.48 | -0.05 | 0.32 |
| 15 | Negative | =˜ | PWB 9 | 0.48 | 0.12 | 3.85 | 0.00 | 0.23 | 0.72 | 0.51 |
| 16 | Positive | =˜ | PWB 6 | 0.39 | 0.05 | 8.04 | 0.00 | 0.29 | 0.48 | 0.02 |
| 17 | Positive | =˜ | PWB 7 | 1.00 | 0.08 | 12.58 | 0.00 | 0.84 | 1.16 | 0.00 |
| 18 | Positive | =˜ | PWB 8 | 0.92 | 0.08 | 11.89 | 0.00 | 0.77 | 1.07 | -0.00 |
| 19 | PWB | ˜˜ | Negative | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 20 | PWB | ˜˜ | Positive | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 21 | Negative | ˜˜ | Positive | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 22 | PWB 1 | ˜˜ | PWB 1 | 1.50 | 0.09 | 17.18 | 0.00 | 1.33 | 1.67 | 0.01 |
| 23 | PWB 2 | ˜˜ | PWB 2 | 0.24 | 0.54 | 0.44 | 0.66 | -0.82 | 1.30 | 0.39 |
| 24 | PWB 3 | ˜˜ | PWB 3 | 0.97 | 0.08 | 12.27 | 0.00 | 0.81 | 1.12 | 0.04 |
| 25 | PWB 4 | ˜˜ | PWB 4 | 1.64 | 0.09 | 18.46 | 0.00 | 1.47 | 1.82 | 0.02 |
| 26 | PWB 5 | ˜˜ | PWB 5 | 0.94 | 0.08 | 11.69 | 0.00 | 0.78 | 1.09 | 0.02 |
| 27 | PWB 6 | ˜˜ | PWB 6 | 1.03 | 0.07 | 15.61 | 0.00 | 0.90 | 1.16 | 0.11 |
| 28 | PWB 7 | ˜˜ | PWB 7 | 0.64 | 0.14 | 4.49 | 0.00 | 0.36 | 0.92 | 0.00 |
| 29 | PWB 8 | ˜˜ | PWB 8 | 1.07 | 0.13 | 8.44 | 0.00 | 0.82 | 1.32 | 0.00 |
| 30 | PWB 9 | ˜˜ | PWB 9 | 1.59 | 0.10 | 16.15 | 0.00 | 1.40 | 1.79 | 0.19 |
| 31 | PWB | ˜˜ | PWB | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 32 | Negative | ˜˜ | Negative | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 33 | Positive | ˜˜ | Positive | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 34 | PWB 1 | ˜1 |  | 3.90 | 0.06 | 69.04 | 0.00 | 3.79 | 4.01 | 0.00 |
| 35 | PWB 2 | ˜1 |  | 3.87 | 0.05 | 76.68 | 0.00 | 3.77 | 3.97 | 0.00 |
| 36 | PWB 3 | ˜1 |  | 4.15 | 0.06 | 74.92 | 0.00 | 4.04 | 4.26 | 0.00 |
| 37 | PWB 4 | ˜1 |  | 4.02 | 0.05 | 75.79 | 0.00 | 3.92 | 4.13 | 0.00 |
| 38 | PWB 5 | ˜1 |  | 2.88 | 0.06 | 50.88 | 0.00 | 2.77 | 2.99 | 0.00 |
| 39 | PWB 6 | ˜1 |  | 4.50 | 0.05 | 98.96 | 0.00 | 4.41 | 4.59 | 0.00 |
| 40 | PWB 7 | ˜1 |  | 4.55 | 0.04 | 101.16 | 0.00 | 4.46 | 4.63 | 0.00 |
| 41 | PWB 8 | ˜1 |  | 4.36 | 0.05 | 89.36 | 0.00 | 4.27 | 4.46 | 0.00 |
| 42 | PWB 9 | ˜1 |  | 4.80 | 0.05 | 95.93 | 0.00 | 4.70 | 4.90 | 0.00 |
| 43 | PWB | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 44 | Negative | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 45 | Positive | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |

Table 5. Bifactor Model CFA PWB

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | lhs | op | rhs | est | se | z | pvalue | ci.lower | ci.upper | fmi |
| 1 | PWB | =˜ | PWB 1 | 0.93 | 0.07 | 13.92 | 0.00 | 0.80 | 1.06 | -0.01 |
| 2 | PWB | =˜ | PWB 2 | 0.87 | 0.06 | 14.36 | 0.00 | 0.75 | 0.99 | 0.09 |
| 3 | PWB | =˜ | PWB 3 | 1.02 | 0.07 | 15.14 | 0.00 | 0.88 | 1.15 | 0.05 |
| 4 | PWB | =˜ | PWB 4 | 0.92 | 0.06 | 15.35 | 0.00 | 0.80 | 1.03 | 0.03 |
| 5 | PWB | =˜ | PWB 5 | -1.02 | 0.07 | -14.88 | 0.00 | -1.15 | -0.88 | 0.02 |
| 6 | PWB | =˜ | PWB 6 | 0.39 | 0.06 | 6.52 | 0.00 | 0.28 | 0.51 | 0.08 |
| 7 | PWB | =˜ | PWB 7 | 0.10 | 0.06 | 1.68 | 0.09 | -0.02 | 0.21 | 0.11 |
| 8 | PWB | =˜ | PWB 8 | 0.18 | 0.06 | 2.99 | 0.00 | 0.06 | 0.31 | 0.08 |
| 9 | PWB | =˜ | PWB 9 | 0.71 | 0.06 | 12.05 | 0.00 | 0.60 | 0.83 | 0.01 |
| 10 | F1 | =˜ | PWB 1 | 0.47 | 0.08 | 5.78 | 0.00 | 0.31 | 0.63 | -0.07 |
| 11 | F1 | =˜ | PWB 3 | 0.67 | 0.08 | 8.34 | 0.00 | 0.51 | 0.83 | 0.05 |
| 12 | F1 | =˜ | PWB 5 | -0.81 | 0.09 | -9.45 | 0.00 | -0.97 | -0.64 | 0.07 |
| 13 | F1 | =˜ | PWB 6 | 0.67 | 0.08 | 8.39 | 0.00 | 0.51 | 0.83 | 0.17 |
| 14 | F2 | =˜ | PWB 4 | 0.43 | 0.06 | 7.21 | 0.00 | 0.32 | 0.55 | 0.09 |
| 15 | F2 | =˜ | PWB 7 | 1.09 | 0.09 | 11.91 | 0.00 | 0.91 | 1.27 | 0.00 |
| 16 | F2 | =˜ | PWB 8 | 0.84 | 0.08 | 10.62 | 0.00 | 0.68 | 0.99 | 0.01 |
| 17 | F3 | =˜ | PWB 2 | 0.31 |  |  |  |  |  |  |
| 18 | F3 | =˜ | PWB 9 | 0.54 |  |  |  |  |  |  |
| 19 | PWB | ˜˜ | F1 | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 20 | PWB | ˜˜ | F2 | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 21 | PWB | ˜˜ | F3 | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 22 | F1 | ˜˜ | F2 | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 23 | F1 | ˜˜ | F3 | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 24 | F2 | ˜˜ | F3 | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 25 | PWB 1 | ˜˜ | PWB 1 | 1.51 | 0.09 | 17.15 | 0.00 | 1.34 | 1.69 | 0.03 |
| 26 | PWB 2 | ˜˜ | PWB 2 | 1.22 |  |  |  |  |  |  |
| 27 | PWB 3 | ˜˜ | PWB 3 | 1.03 | 0.07 | 14.13 | 0.00 | 0.88 | 1.17 | -0.01 |
| 28 | PWB 4 | ˜˜ | PWB 4 | 1.27 | 0.09 | 14.37 | 0.00 | 1.10 | 1.44 | 0.02 |
| 29 | PWB 5 | ˜˜ | PWB 5 | 0.93 | 0.08 | 10.97 | 0.00 | 0.76 | 1.10 | 0.03 |
| 30 | PWB 6 | ˜˜ | PWB 6 | 1.08 | 0.09 | 11.98 | 0.00 | 0.91 | 1.26 | 0.12 |
| 31 | PWB 7 | ˜˜ | PWB 7 | 0.45 | 0.18 | 2.44 | 0.01 | 0.09 | 0.81 | 0.00 |
| 32 | PWB 8 | ˜˜ | PWB 8 | 1.21 | 0.12 | 10.02 | 0.00 | 0.97 | 1.45 | 0.00 |
| 33 | PWB 9 | ˜˜ | PWB 9 | 1.24 |  |  |  |  |  |  |
| 34 | PWB | ˜˜ | PWB | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 35 | F1 | ˜˜ | F1 | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 36 | F2 | ˜˜ | F2 | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 37 | F3 | ˜˜ | F3 | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 38 | PWB 1 | ˜1 |  | 3.90 | 0.06 | 69.04 | 0.00 | 3.79 | 4.01 | 0.00 |
| 39 | PWB 2 | ˜1 |  | 3.87 | 0.05 | 76.68 | 0.00 | 3.77 | 3.97 | 0.00 |
| 40 | PWB 3 | ˜1 |  | 4.15 | 0.06 | 74.92 | 0.00 | 4.04 | 4.26 | 0.00 |
| 41 | PWB 4 | ˜1 |  | 4.02 | 0.05 | 75.79 | 0.00 | 3.92 | 4.13 | 0.00 |
| 42 | PWB 5 | ˜1 |  | 2.88 | 0.06 | 50.88 | 0.00 | 2.77 | 2.99 | 0.00 |
| 43 | PWB 6 | ˜1 |  | 4.50 | 0.05 | 98.96 | 0.00 | 4.41 | 4.59 | 0.00 |
| 44 | PWB 7 | ˜1 |  | 4.55 | 0.04 | 101.16 | 0.00 | 4.46 | 4.63 | 0.00 |
| 45 | PWB 8 | ˜1 |  | 4.36 | 0.05 | 89.36 | 0.00 | 4.27 | 4.46 | 0.00 |
| 46 | PWB 9 | ˜1 |  | 4.80 | 0.05 | 95.93 | 0.00 | 4.70 | 4.90 | 0.00 |
| 47 | PWB | ˜1 |  | 0.00 | 50.00 |  |  | 0.00 | 0.00 |  |
| 48 | F1 | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 49 | F2 | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 50 | F3 | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |

Table 6. Bifactor (Negative) Model CFA PWB

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | lhs | op | rhs | est | se | z | pvalue | ci.lower | ci.upper | fmi |
| 1 | Negative | =˜ | PWB 1 | 1.43 | 78.75 | 0.02 | 0.99 | -152.92 | 155.77 |  |
| 2 | Negative | =˜ | PWB 2 | 0.97 | 53.66 | 0.02 | 0.99 | -104.20 | 106.14 |  |
| 3 | Negative | =˜ | PWB 3 | 1.54 | 85.12 | 0.02 | 0.99 | -165.29 | 168.38 |  |
| 4 | Negative | =˜ | PWB 4 | 0.94 | 51.67 | 0.02 | 0.99 | -100.33 | 102.20 |  |
| 5 | Negative | =˜ | PWB 5 | -1.57 | 86.80 | -0.02 | 0.99 | -171.70 | 168.56 |  |
| 6 | Negative | =˜ | PWB 9 | 0.83 | 45.71 | 0.02 | 0.99 | -88.76 | 90.41 |  |
| 7 | PWB | =˜ | PWB 1 | 0.93 | 121.08 | 0.01 | 0.99 | -236.39 | 238.25 |  |
| 8 | PWB | =˜ | PWB 2 | 0.92 | 82.50 | 0.01 | 0.99 | -160.79 | 162.62 |  |
| 9 | PWB | =˜ | PWB 3 | 1.25 | 130.88 | 0.01 | 0.99 | -255.27 | 257.78 |  |
| 10 | PWB | =˜ | PWB 4 | 1.22 | 79.44 | 0.02 | 0.99 | -154.48 | 156.93 |  |
| 11 | PWB | =˜ | PWB 5 | -1.33 | 133.47 | -0.01 | 0.99 | -262.93 | 260.26 |  |
| 12 | PWB | =˜ | PWB 6 | 0.48 | 0.05 | 8.78 | 0.00 | 0.37 | 0.59 | 0.10 |
| 13 | PWB | =˜ | PWB 7 | 0.97 | 0.06 | 17.22 | 0.00 | 0.86 | 1.08 | 0.06 |
| 14 | PWB | =˜ | PWB 8 | 0.95 | 0.06 | 16.45 | 0.00 | 0.84 | 1.07 | 0.00 |
| 15 | PWB | =˜ | PWB 9 | 0.73 | 70.28 | 0.01 | 0.99 | -137.01 | 138.48 |  |
| 16 | PWB 1 | ˜˜ | PWB 1 | 1.42 | 0.09 | 15.57 | 0.00 | 1.24 | 1.60 | 0.03 |
| 17 | PWB 2 | ˜˜ | PWB 2 | 1.45 | 0.08 | 18.06 | 0.00 | 1.30 | 1.61 | 0.04 |
| 18 | PWB 3 | ˜˜ | PWB 3 | 1.07 | 0.08 | 13.86 | 0.00 | 0.92 | 1.22 | 0.02 |
| 19 | PWB 4 | ˜˜ | PWB 4 | 1.42 | 0.08 | 17.41 | 0.00 | 1.26 | 1.58 | 0.01 |
| 20 | PWB 5 | ˜˜ | PWB 5 | 1.08 | 0.08 | 13.84 | 0.00 | 0.93 | 1.24 | 0.00 |
| 21 | PWB 9 | ˜˜ | PWB 9 | 1.61 | 0.08 | 18.97 | 0.00 | 1.44 | 1.77 | 0.01 |
| 22 | PWB 6 | ˜˜ | PWB 6 | 1.46 | 0.08 | 18.51 | 0.00 | 1.30 | 1.61 | 0.04 |
| 23 | PWB 7 | ˜˜ | PWB 7 | 0.71 | 0.09 | 8.01 | 0.00 | 0.53 | 0.88 | 0.09 |
| 24 | PWB 8 | ˜˜ | PWB 8 | 1.04 | 0.09 | 11.46 | 0.00 | 0.86 | 1.21 | 0.00 |
| 25 | Negative | ˜˜ | Negative | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 26 | PWB | ˜˜ | PWB | 1.00 | 0.00 |  |  | 1.00 | 1.00 |  |
| 27 | Negative | ˜˜ | PWB | -0.65 | 48.95 | -0.01 | 0.99 | -96.60 | 95.30 |  |
| 28 | PWB 1 | ˜1 |  | 3.90 | 0.06 | 69.04 | 0.00 | 3.79 | 4.01 | 0.00 |
| 29 | PWB 2 | ˜1 |  | 3.87 | 0.05 | 76.68 | 0.00 | 3.77 | 3.97 | 0.00 |
| 30 | PWB 3 | ˜1 |  | 4.15 | 0.06 | 74.92 | 0.00 | 4.04 | 4.26 | 0.00 |
| 31 | PWB 4 | ˜1 |  | 4.02 | 0.05 | 75.79 | 0.00 | 3.92 | 4.13 | 0.00 |
| 32 | PWB 5 | ˜1 |  | 2.88 | 0.06 | 50.88 | 0.00 | 2.77 | 2.99 | 0.00 |
| 33 | PWB 9 | ˜1 |  | 4.80 | 0.05 | 95.93 | 0.00 | 4.70 | 4.90 | 0.00 |
| 34 | PWB 6 | ˜1 |  | 4.50 | 0.05 | 98.96 | 0.00 | 4.41 | 4.59 | 0.00 |
| 35 | PWB 7 | ˜1 |  | 4.55 | 0.04 | 101.16 | 0.00 | 4.46 | 4.63 | 0.00 |
| 36 | PWB 8 | ˜1 |  | 4.36 | 0.05 | 89.36 | 0.00 | 4.27 | 4.46 | 0.00 |
| 37 | Negative | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |
| 38 | PWB | ˜1 |  | 0.00 | 0.00 |  |  | 0.00 | 0.00 |  |