Model selection based on AICc:

K AICc Delta\_AICc AICcWt Cum.Wt LL

model5 14 851.48 0.00 0.41 0.41 -410.43

model2 15 852.44 0.97 0.25 0.67 -409.60

model4 13 852.88 1.40 0.20 0.87 -412.41

model3 14 853.77 2.29 0.13 1.00 -411.58

> summary(lvmod.5.fit, rsq=T, standardized=T,fit.measures = TRUE)

lavaan 0.6.16 ended normally after 1 iteration

Estimator ML

Optimization method NLMINB

Number of model parameters 14

Number of observations 79

Model Test User Model:

Test statistic 1.661

Degrees of freedom 1

P-value (Chi-square) 0.197

Model Test Baseline Model:

Test statistic 296.722

Degrees of freedom 10

P-value 0.000

User Model versus Baseline Model:

Comparative Fit Index (CFI) 0.998

Tucker-Lewis Index (TLI) 0.977

Loglikelihood and Information Criteria:

Loglikelihood user model (H0) -410.434

Loglikelihood unrestricted model (H1) -409.604

Akaike (AIC) 848.869

Bayesian (BIC) 882.041

Sample-size adjusted Bayesian (SABIC) 837.898

Root Mean Square Error of Approximation:

RMSEA 0.091

90 Percent confidence interval - lower 0.000

90 Percent confidence interval - upper 0.330

P-value H\_0: RMSEA <= 0.050 0.241

P-value H\_0: RMSEA >= 0.080 0.696

Standardized Root Mean Square Residual:

SRMR 0.037

Parameter Estimates:

Standard errors Standard

Information Expected

Information saturated (h1) model Structured

Regressions:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all

Plant.Rich.Asy ~

pre.AI 0.152 0.111 1.368 0.171 0.152 0.152

Micro.Rich.Asy ~

pre.AI -0.126 0.202 -0.624 0.533 -0.126 -0.126

Soil.PCA1.Asy 0.214 0.202 1.060 0.289 0.214 0.214

Soil.PCA1.Asy ~

pre.AI 0.856 0.061 14.137 0.000 0.856 0.856

Plant.Rich.Asy -0.153 0.061 -2.527 0.011 -0.153 -0.153

EF.Asy ~

pre.AI 0.199 0.064 3.136 0.002 0.199 0.198

Soil.PCA1.Asy 0.680 0.063 10.791 0.000 0.680 0.678

Micro.Rich.Asy 0.356 0.034 10.578 0.000 0.356 0.354

Plant.Rich.Asy -0.071 0.035 -2.035 0.042 -0.071 -0.071

Variances:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all

.Plant.Rich.Asy 0.964 0.153 6.285 0.000 0.964 0.977

.Micro.Rich.Asy 0.971 0.154 6.285 0.000 0.971 0.983

.Soil.PCA1.Asy 0.280 0.044 6.285 0.000 0.280 0.283

.EF.Asy 0.087 0.014 6.285 0.000 0.087 0.087

pre.AI 0.987 0.157 6.285 0.000 0.987 1.000

R-Square:

Estimate

Plant.Rich.Asy 0.023

Micro.Rich.Asy 0.017

Soil.PCA1.Asy 0.717

EF.Asy 0.913

>

> fitMeasures(lvmod.5.fit, c("cfi", "rmsea", "srmr"))

cfi rmsea srmr

0.998 0.091 0.037