Model selection based on AICc:

K AICc Delta\_AICc AICcWt Cum.Wt LL

model3 14 571.53 0.00 0.32 0.32 -269.67

model6 14 571.91 0.39 0.27 0.59 -269.86

model5 14 571.91 0.39 0.27 0.86 -269.86

model4 15 574.57 3.05 0.07 0.93 -269.67

model2 15 574.58 3.05 0.07 1.00 -269.67

> semPaths(lvmod.3.fit, what = 'std', layout = 'tree', residuals = FALSE,

+ edge.label.cex = 1)

> summary(lvmod.3.fit, rsq=T, standardized=T,fit.measures = TRUE)

lavaan 0.6.16 ended normally after 2 iterations

Estimator ML

Optimization method NLMINB

Number of model parameters 14

Number of observations 53

Model Test User Model:

Test statistic 0.005

Degrees of freedom 1

P-value (Chi-square) 0.944

Model Test Baseline Model:

Test statistic 207.656

Degrees of freedom 10

P-value 0.000

User Model versus Baseline Model:

Comparative Fit Index (CFI) 1.000

Tucker-Lewis Index (TLI) 1.050

Loglikelihood and Information Criteria:

Loglikelihood user model (H0) -269.670

Loglikelihood unrestricted model (H1) -269.667

Akaike (AIC) 567.339

Bayesian (BIC) 594.923

Sample-size adjusted Bayesian (SABIC) 550.949

Root Mean Square Error of Approximation:

RMSEA 0.000

90 Percent confidence interval - lower 0.000

90 Percent confidence interval - upper 0.063

P-value H\_0: RMSEA <= 0.050 0.948

P-value H\_0: RMSEA >= 0.080 0.047

Standardized Root Mean Square Residual:

SRMR 0.000

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 -0.475 0.121 -3.929 0.000 -0.475 -0.475

Micro.Rich.Asy ~

pre.AI 0.726 0.114 6.383 0.000 0.726 0.726

Plant.Rich.Asy 0.099 0.114 0.868 0.385 0.099 0.099

Soil.PCA1.Asy ~

pre.AI 0.280 0.194 1.442 0.149 0.280 0.280

Plant.Rich.Asy -0.188 0.147 -1.275 0.202 -0.188 -0.188

Micro.Rich.Asy -0.110 0.176 -0.626 0.531 -0.110 -0.110

EF.Asy ~

pre.AI 0.373 0.037 9.989 0.000 0.373 0.373

Plant.Rich.Asy 0.160 0.037 4.285 0.000 0.160 0.160

Soil.PCA1.Asy 0.854 0.034 24.883 0.000 0.854 0.854

Variances:

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

.Plant.Rich.Asy 0.760 0.148 5.148 0.000 0.760 0.774

.Micro.Rich.Asy 0.521 0.101 5.148 0.000 0.521 0.531

.Soil.PCA1.Asy 0.860 0.167 5.148 0.000 0.860 0.876

.EF.Asy 0.054 0.011 5.148 0.000 0.054 0.055

pre.AI 0.981 0.191 5.148 0.000 0.981 1.000

R-Square:

Estimate

Plant.Rich.Asy 0.226

Micro.Rich.Asy 0.469

Soil.PCA1.Asy 0.124

EF.Asy 0.945

> fitMeasures(lvmod.3.fit, c("cfi", "rmsea", "srmr"))

cfi rmsea srmr

1 0 0