Model selection based on AICc:

K AICc Delta\_AICc AICcWt Cum.Wt LL

model5 14 517.85 0.00 0.58 0.58 -242.83

model4 15 520.68 2.83 0.14 0.72 -242.72

model3 15 520.68 2.83 0.14 0.86 -242.72

model2 15 520.68 2.83 0.14 1.00 -242.72

> summary(lvmod.5.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 0.221

Degrees of freedom 1

P-value (Chi-square) 0.639

Model Test Baseline Model:

Test statistic 261.546

Degrees of freedom 10

P-value 0.000

User Model versus Baseline Model:

Comparative Fit Index (CFI) 1.000

Tucker-Lewis Index (TLI) 1.031

Loglikelihood and Information Criteria:

Loglikelihood user model (H0) -242.832

Loglikelihood unrestricted model (H1) -242.722

Akaike (AIC) 513.664

Bayesian (BIC) 541.248

Sample-size adjusted Bayesian (SABIC) 497.274

Root Mean Square Error of Approximation:

RMSEA 0.000

90 Percent confidence interval - lower 0.000

90 Percent confidence interval - upper 0.283

P-value H\_0: RMSEA <= 0.050 0.660

P-value H\_0: RMSEA >= 0.080 0.309

Standardized Root Mean Square Residual:

SRMR 0.010

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.CV ~

pre.AI 0.806 0.081 9.897 0.000 0.806 0.806

Micro.Rich.CV ~

pre.AI -0.157 0.259 -0.605 0.545 -0.157 -0.157

Soil.PCA1.CV 0.118 0.259 0.453 0.651 0.118 0.118

Soil.PCA1.CV ~

Plant.Rich.CV 0.054 0.118 0.457 0.648 0.054 0.054

pre.AI -0.903 0.118 -7.650 0.000 -0.903 -0.903

EF.CV ~

Plant.Rich.CV -0.073 0.068 -1.070 0.285 -0.073 -0.073

Soil.PCA1.CV 0.478 0.079 6.062 0.000 0.478 0.478

Micro.Rich.CV 0.038 0.042 0.913 0.361 0.038 0.038

pre.AI -0.444 0.098 -4.510 0.000 -0.444 -0.444

Variances:

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

.Plant.Rich.CV 0.345 0.067 5.148 0.000 0.345 0.351

.Micro.Rich.CV 0.912 0.177 5.148 0.000 0.912 0.930

.Soil.PCA1.CV 0.255 0.049 5.148 0.000 0.255 0.260

.EF.CV 0.084 0.016 5.148 0.000 0.084 0.085

pre.AI 0.981 0.191 5.148 0.000 0.981 1.000

R-Square:

Estimate

Plant.Rich.CV 0.649

Micro.Rich.CV 0.070

Soil.PCA1.CV 0.740

EF.CV 0.915

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

cfi rmsea srmr

1.00 0.00 0.01