Model selection based on AICc:

K AICc Delta\_AICc AICcWt Cum.Wt LL

model1 14 966.32 0.00 0.77 0.77 -467.86

model2 13 968.78 2.46 0.23 1.00 -470.36

> semPaths(lvmod.1.fit, what = 'std', layout = 'tree', residuals = FALSE,

+ edge.label.cex = 1)

> summary(lvmod.1.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 0.960

Degrees of freedom 1

P-value (Chi-square) 0.327

Model Test Baseline Model:

Test statistic 181.178

Degrees of freedom 10

P-value 0.000

User Model versus Baseline Model:

Comparative Fit Index (CFI) 1.000

Tucker-Lewis Index (TLI) 1.002

Loglikelihood and Information Criteria:

Loglikelihood user model (H0) -467.856

Loglikelihood unrestricted model (H1) -467.376

Akaike (AIC) 963.712

Bayesian (BIC) 996.884

Sample-size adjusted Bayesian (SABIC) 952.741

Root Mean Square Error of Approximation:

RMSEA 0.000

90 Percent confidence interval - lower 0.000

90 Percent confidence interval - upper 0.295

P-value H\_0: RMSEA <= 0.050 0.373

P-value H\_0: RMSEA >= 0.080 0.560

Standardized Root Mean Square Residual:

SRMR 0.019

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 0.290 0.108 2.695 0.007 0.290 0.290

Micro.Rich.CV ~

pre.AI 0.689 0.087 7.936 0.000 0.689 0.689

Plant.Rich.CV -0.343 0.087 -3.957 0.000 -0.343 -0.343

Soil.PCA1.CV ~

Plant.Rich.CV -0.618 0.090 -6.866 0.000 -0.618 -0.618

pre.AI 0.433 0.090 4.811 0.000 0.433 0.433

EF.CV ~

Plant.Rich.CV -0.217 0.093 -2.327 0.020 -0.217 -0.218

Soil.PCA1.CV 0.534 0.087 6.142 0.000 0.534 0.538

Micro.Rich.CV -0.233 0.090 -2.586 0.010 -0.233 -0.235

pre.AI 0.554 0.100 5.518 0.000 0.554 0.559

Variances:

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

.Plant.Rich.CV 0.904 0.144 6.285 0.000 0.904 0.916

.Micro.Rich.CV 0.538 0.086 6.285 0.000 0.538 0.545

.Soil.PCA1.CV 0.579 0.092 6.285 0.000 0.579 0.586

.EF.CV 0.345 0.055 6.285 0.000 0.345 0.355

pre.AI 0.987 0.157 6.285 0.000 0.987 1.000

R-Square:

Estimate

Plant.Rich.CV 0.084

Micro.Rich.CV 0.455

Soil.PCA1.CV 0.414

EF.CV 0.645

> fitMeasures(lvmod.1.fit, c("cfi", "rmsea", "srmr"))

cfi rmsea srmr

1.000 0.000 0.019