Model selection based on AICc:

K AICc Delta\_AICc AICcWt Cum.Wt LL

model3 9 998.89 0.00 0.43 0.43 -490.09

model2 9 998.89 0.00 0.43 0.86 -490.09

model1 10 1001.13 2.24 0.14 1.00 -490.06

Warning message:

In aictab.lavaan(list(lvmod.1.fit, lvmod.2.fit, lvmod.3.fit), c("model1", :

Check model structure carefully as some models may be redundant

>

>

> 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 8 iterations

Estimator ML

Optimization method NLMINB

Number of model parameters 9

Number of observations 91

Model Test User Model:

Test statistic 0.057

Degrees of freedom 1

P-value (Chi-square) 0.812

Model Test Baseline Model:

Test statistic 48.839

Degrees of freedom 6

P-value 0.000

User Model versus Baseline Model:

Comparative Fit Index (CFI) 1.000

Tucker-Lewis Index (TLI) 1.132

Loglikelihood and Information Criteria:

Loglikelihood user model (H0) -490.092

Loglikelihood unrestricted model (H1) -490.063

Akaike (AIC) 998.183

Bayesian (BIC) 1020.781

Sample-size adjusted Bayesian (SABIC) 992.374

Root Mean Square Error of Approximation:

RMSEA 0.000

90 Percent confidence interval - lower 0.000

90 Percent confidence interval - upper 0.172

P-value H\_0: RMSEA <= 0.050 0.832

P-value H\_0: RMSEA >= 0.080 0.141

Standardized Root Mean Square Residual:

SRMR 0.007

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 ~

pre.AI -0.188 0.103 -1.827 0.068 -0.188 -0.188

Plant.net ~

pre.AI -0.459 0.093 -4.929 0.000 -0.459 -0.459

Veg.mass ~

pre.AI -0.222 0.094 -2.376 0.017 -0.222 -0.222

Plant.rich 0.386 0.094 4.131 0.000 0.386 0.386

Covariances:

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

.Plant.net ~~

.Veg.mass 0.027 0.081 0.340 0.734 0.027 0.036

Variances:

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

.Plant.rich 0.954 0.141 6.745 0.000 0.954 0.965

.Plant.net 0.781 0.116 6.745 0.000 0.781 0.789

.Veg.mass 0.761 0.113 6.745 0.000 0.761 0.769

pre.AI 0.989 0.147 6.745 0.000 0.989 1.000

R-Square:

Estimate

Plant.rich 0.035

Plant.net 0.211

Veg.mass 0.231