

The SAS System

The Mixed Procedure

Model Information	
Data Set	WORK.PLANTACID
Dependent Variable	y
Covariance Structure	Variance Components
Estimation Method	Type 3
Residual Variance Method	Factor
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Satterthwaite

Class Level Information		
Class	Levels	Values
plant	4	1 2 3 4
leaf	3	1 2 3

Dimensions	
Covariance Parameters	3
Columns in X	1
Columns in Z	16
Subjects	1
Max Obs per Subject	36

Number of Observations	
Number of Observations Read	36
Number of Observations Used	36
Number of Observations Not Used	0

Type 3 Analysis of Variance								
Source	DF	Sum of Squares	Mean Square	Expected Mean Square	Error Term	Error DF	F Value	Pr > F
plant	3	343.178889	114.392963	Var(Residual) + 3 Var(leaf(plant)) + 9 Var(plant)	MS(leaf(plant))	8	4.88	0.0324
leaf(plant)	8	187.453333	23.431667	Var(Residual) + 3 Var(leaf(plant))	MS(Residual)	24	185.39	<.0001
Residual	24	3.033333	0.126389	Var(Residual)

Covariance Parameter Estimates				
Cov Parm	Estimate	Alpha	Lower	Upper
plant	10.1068	0.05	-10.3930	30.6066
leaf(plant)	7.7684	0.05	0.1142	15.4227
Residual	0.1264	0.05	0.07706	0.2446

The SAS System

The Mixed Procedure

Fit Statistics	
-2 Res Log Likelihood	92.7
AIC (Smaller is Better)	98.7
AICC (Smaller is Better)	99.5
BIC (Smaller is Better)	96.9

Solution for Fixed Effects								
Effect	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
Intercept	14.2611	1.7826	3	8.00	0.0041	0.05	8.5882	19.9341