

Randomized block anova for trapping experiment data

H0 true - no block effect

The Mixed Procedure

Model Information	
Data Set	WORK.TRAPEXP
Dependent Variable	y
Covariance Structure	Diagonal
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Residual

Class Level Information		
Class	Levels	Values
treat	4	AP FRAP IDAP ISAP

Dimensions	
Covariance Parameters	1
Columns in X	5
Columns in Z	0
Subjects	1
Max Obs per Subject	23

Number of Observations	
Number of Observations Read	24
Number of Observations Used	23
Number of Observations Not Used	1

Covariance Parameter Estimates				
Cov Parm	Estimate	Alpha	Lower	Upper
Residual	0.4925	0.05	0.2848	1.0506

Fit Statistics	
-2 Res Log Likelihood	47.4
AIC (Smaller is Better)	49.4
AICC (Smaller is Better)	49.7

BIC (Smaller is Better)	50.4
--------------------------------	------

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
treat	3	19	20.43	<.0001

Randomized block anova for trapping experiment data

H1 true - there is a block effect

The Mixed Procedure

Model Information	
Data Set	WORK.TRAPEXP
Dependent Variable	y
Covariance Structure	Variance Components
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Kenward-Roger
Degrees of Freedom Method	Kenward-Roger

Class Level Information		
Class	Levels	Values
treat	4	AP FRAP IDAP ISAP
block	6	1 2 3 4 5 6

Dimensions	
Covariance Parameters	2
Columns in X	5
Columns in Z	6
Subjects	1
Max Obs per Subject	23

Number of Observations	
Number of Observations Read	24
Number of Observations Used	23
Number of Observations Not Used	1

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	47.44629548	
1	2	38.98690259	0.00950955
2	1	38.96571169	0.00025308
3	1	38.96519017	0.00000021

4	1	38.96518975	0.00000000
---	---	-------------	------------

Convergence criteria met.

Covariance Parameter Estimates				
Cov Parm	Estimate	Alpha	Lower	Upper
block	0.3332	0.05	0.1159	3.1475
Residual	0.1831	0.05	0.09789	0.4576

Fit Statistics	
-2 Res Log Likelihood	39.0
AIC (Smaller is Better)	43.0
AICC (Smaller is Better)	43.7
BIC (Smaller is Better)	42.5

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
treat	3	13.9	54.68	<.0001