

The GLIMMIX Procedure

Model Information	
Data Set	WORK.RCBD
Response Variable	Nitrogen
Response Distribution	Gaussian
Link Function	Identity
Variance Function	Default
Variance Matrix	Not blocked
Estimation Technique	Restricted Maximum Likelihood
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
block	4	1 2 3 4
trmt	6	1 2 3 4 5 6

Number of Observations Read	24
Number of Observations Used	24

Dimensions	
G-side Cov. Parameters	1
R-side Cov. Parameters	1
Columns in X	7
Columns in Z	4
Subjects (Blocks in V)	1
Max Obs per Subject	24

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	1
Lower Boundaries	1
Upper Boundaries	0
Fixed Effects	Profiled
Residual Variance	Profiled
Starting From	Data

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Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	101.56577191	.	3.44E-15

Convergence criterion (ABSGCONV=0.00001) satisfied.

Fit Statistics	
-2 Res Log Likelihood	101.57
AIC (smaller is better)	105.57
AICC (smaller is better)	106.37
BIC (smaller is better)	104.34
CAIC (smaller is better)	106.34
HQIC (smaller is better)	102.87
Generalized Chi-Square	129.61
Gener. Chi-Square / DF	7.20

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
block	9.7446	8.9470
Residual	7.2006	2.6293

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
trmt	5	15	5.59	0.0042

trmt Least Squares Means					
trmt	Estimate	Standard Error	DF	t Value	Pr > t
1	38.2775	2.0582	15	18.60	<.0001
2	44.0325	2.0582	15	21.39	<.0001
3	46.7700	2.0582	15	22.72	<.0001
4	40.6150	2.0582	15	19.73	<.0001
5	39.5100	2.0582	15	19.20	<.0001
6	43.2250	2.0582	15	21.00	<.0001

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Differences of trmt Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
trmt	_trmt	Estimate	Standard Error	DF	t Value	Pr > t	Adj P
1	2	-5.7550	1.8974	15	-3.03	0.0084	0.0742
1	3	-8.4925	1.8974	15	-4.48	0.0004	0.0049
1	4	-2.3375	1.8974	15	-1.23	0.2369	0.8150
1	5	-1.2325	1.8974	15	-0.65	0.5258	0.9849
1	6	-4.9475	1.8974	15	-2.61	0.0198	0.1553
2	3	-2.7375	1.8974	15	-1.44	0.1697	0.7025
2	4	3.4175	1.8974	15	1.80	0.0918	0.4934
2	5	4.5225	1.8974	15	2.38	0.0308	0.2226
2	6	0.8075	1.8974	15	0.43	0.6765	0.9978
3	4	6.1550	1.8974	15	3.24	0.0055	0.0505
3	5	7.2600	1.8974	15	3.83	0.0017	0.0168
3	6	3.5450	1.8974	15	1.87	0.0814	0.4559
4	5	1.1050	1.8974	15	0.58	0.5690	0.9907
4	6	-2.6100	1.8974	15	-1.38	0.1892	0.7402
5	6	-3.7150	1.8974	15	-1.96	0.0691	0.4079

**Tukey-Kramer Grouping for
trmt Least Squares Means
(Alpha=0.05)**

LS-means with the same
letter are not significantly
different.

trmt	Estimate		
3	46.7700		A
			A
2	44.0325	B	A
		B	A
6	43.2250	B	A
		B	A
4	40.6150	B	A
		B	
5	39.5100	B	
		B	
1	38.2775	B	