

Proc GLIMMIX Results

The GLIMMIX Procedure

Model Information	
Data Set	WORK.RCBD
Response Variable	Nitrogen
Response Distribution	Gaussian
Link Function	Identity
Variance Function	Default
Variance Matrix	Diagonal
Estimation Technique	Restricted Maximum Likelihood
Degrees of Freedom Method	Residual

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

Number of Observations Read	24
Number of Observations Used	24

Dimensions	
Covariance Parameters	1
Columns in X	7
Columns in Z	0
Subjects (Blocks in V)	1
Max Obs per Subject	24

Optimization Information	
Optimization Technique	None
Parameters	7
Lower Boundaries	1
Upper Boundaries	0
Fixed Effects	Not Profiled

Fit Statistics	
-2 Res Log Likelihood	110.34
AIC (smaller is better)	124.34
AICC (smaller is better)	135.54
BIC (smaller is better)	130.57
CAIC (smaller is better)	137.57

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Fit Statistics	
HQIC (smaller is better)	125.20
Pearson Chi-Square	305.01
Pearson Chi-Square / DF	16.95

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
trmt	5	18	2.38	0.0802

trmt Least Squares Means							
trmt	Estimate	Standard Error	DF	t Value	Pr > t	Mean	Standard Error Mean
1	38.2775	2.0582	18	18.60	<.0001	38.2775	2.0582
2	44.0325	2.0582	18	21.39	<.0001	44.0325	2.0582
3	46.7700	2.0582	18	22.72	<.0001	46.7700	2.0582
4	40.6150	2.0582	18	19.73	<.0001	40.6150	2.0582
5	39.5100	2.0582	18	19.20	<.0001	39.5100	2.0582
6	43.2250	2.0582	18	21.00	<.0001	43.2250	2.0582

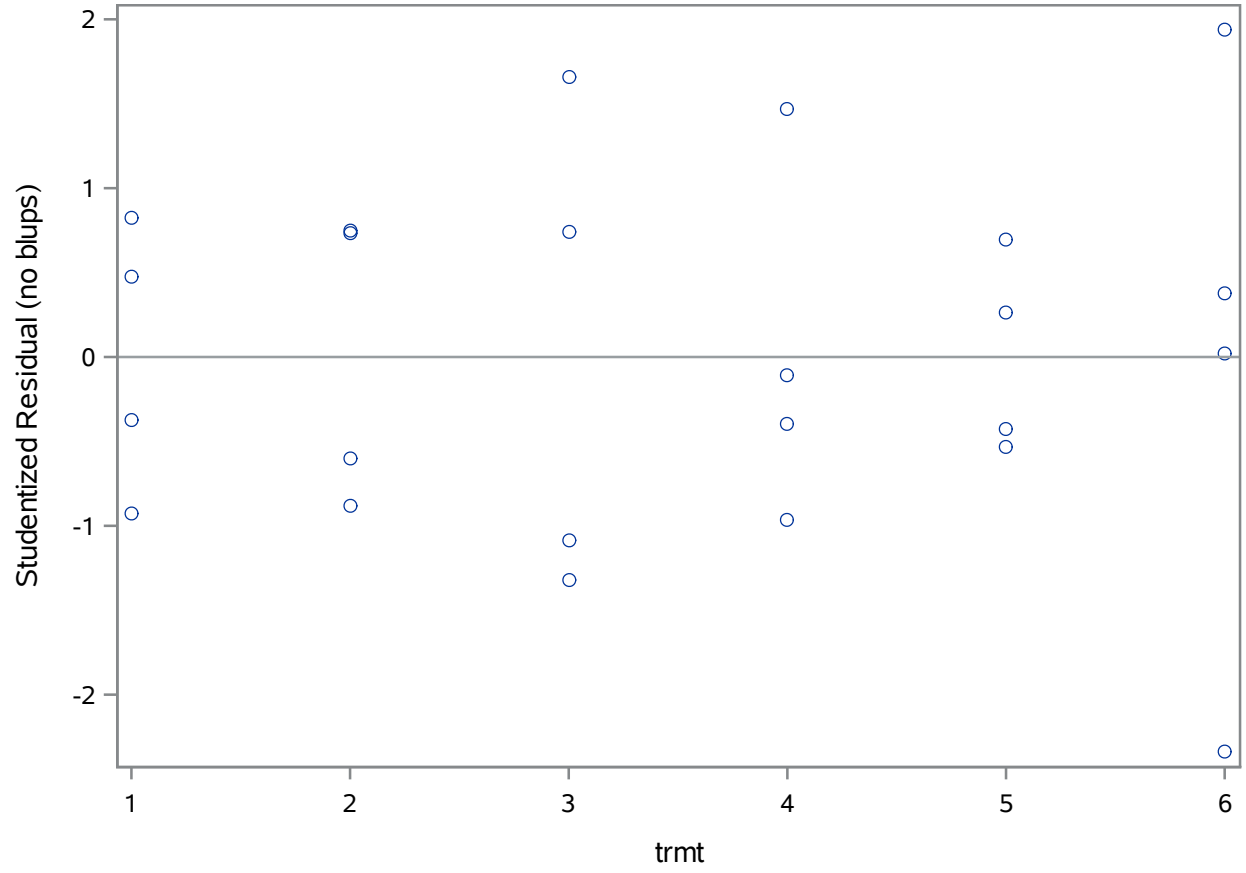
Differences of trmt Least Squares Means Adjustment for Multiple Comparisons: Tukey							
trmt	_trmt	Estimate	Standard Error	DF	t Value	Pr > t	Adj P
1	2	-5.7550	2.9108	18	-1.98	0.0635	0.3917
1	3	-8.4925	2.9108	18	-2.92	0.0092	0.0828
1	4	-2.3375	2.9108	18	-0.80	0.4324	0.9633
1	5	-1.2325	2.9108	18	-0.42	0.6770	0.9980
1	6	-4.9475	2.9108	18	-1.70	0.1064	0.5489
2	3	-2.7375	2.9108	18	-0.94	0.3594	0.9304
2	4	3.4175	2.9108	18	1.17	0.2557	0.8432
2	5	4.5225	2.9108	18	1.55	0.1377	0.6366
2	6	0.8075	2.9108	18	0.28	0.7846	0.9997
3	4	6.1550	2.9108	18	2.11	0.0487	0.3234
3	5	7.2600	2.9108	18	2.49	0.0226	0.1776
3	6	3.5450	2.9108	18	1.22	0.2390	0.8227
4	5	1.1050	2.9108	18	0.38	0.7087	0.9988
4	6	-2.6100	2.9108	18	-0.90	0.3817	0.9424
5	6	-3.7150	2.9108	18	-1.28	0.2181	0.7936

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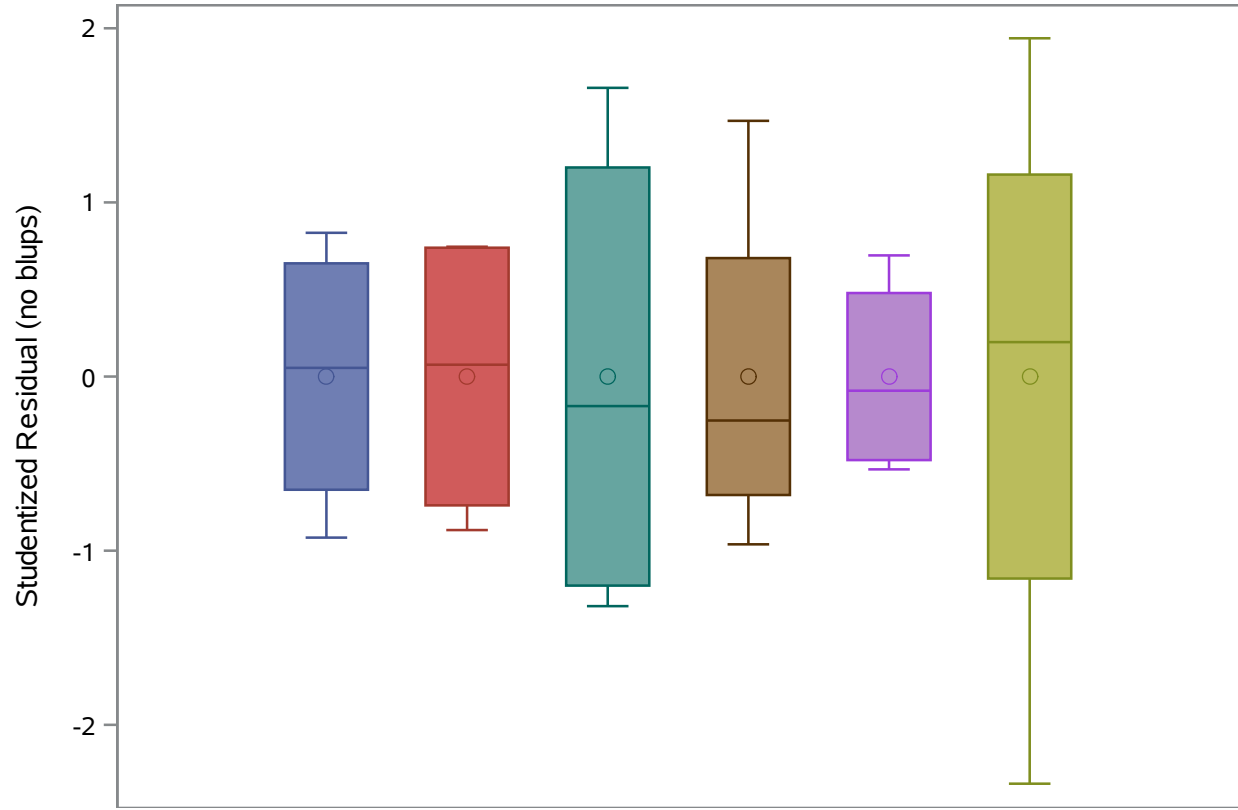
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Tukey Grouping for trmt Least Squares Means (Alpha=0.05)		
LS-means with the same letter are not significantly different.		
trmt	Estimate	
3	46.7700	A
		A
2	44.0325	A
		A
6	43.2250	A
		A
4	40.6150	A
		A
5	39.5100	A
		A
1	38.2775	A

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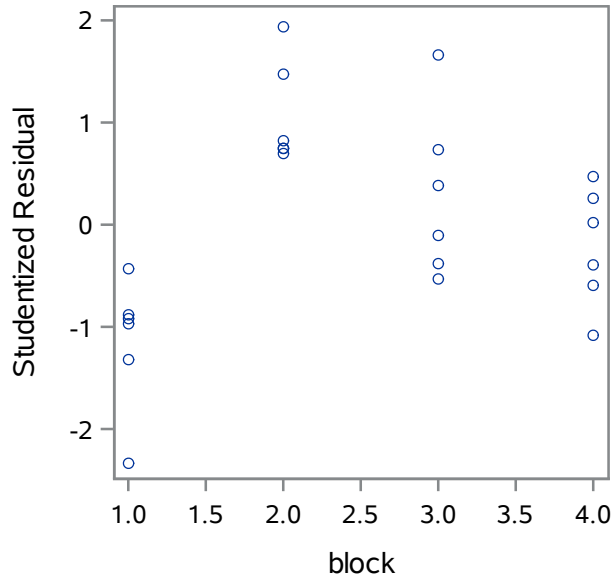
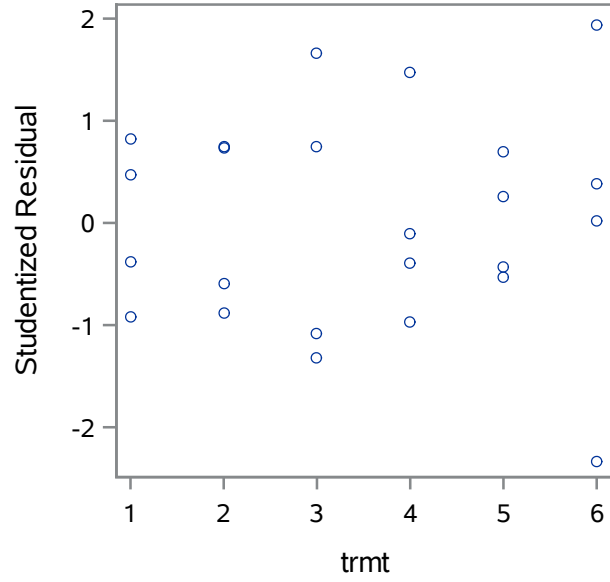
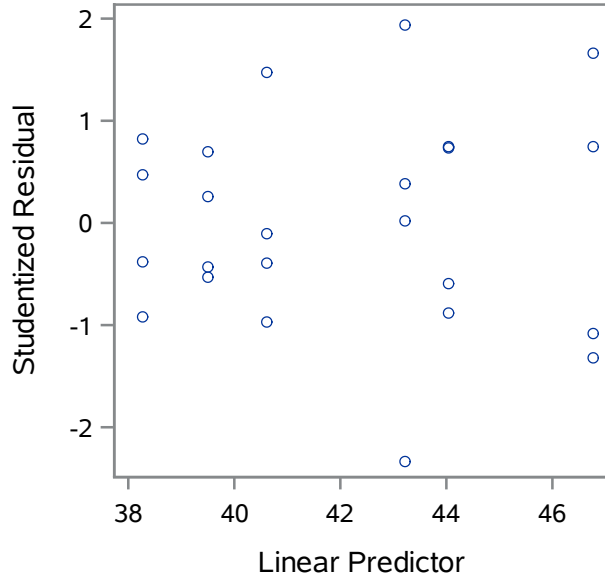


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trmt 1 2 3 4 5 6

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The UNIVARIATE Procedure Variable: studentresid (Studentized Residual)

Moments			
N	24	Sum Weights	24
Mean	0	Sum Observations	0
Std Deviation	1.02150784	Variance	1.04347826
Skewness	-0.0854656	Kurtosis	-0.0703732
Uncorrected SS	24	Corrected SS	24
Coeff Variation	.	Std Error Mean	0.20851441

Basic Statistical Measures			
Location		Variability	
Mean	0.00000	Std Deviation	1.02151
Median	-0.04488	Variance	1.04348
Mode	.	Range	4.28057
		Interquartile Range	1.47863

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	0	Pr > t 	1.0000
Sign	M	0	Pr >= M 	1.0000
Signed Rank	S	-2	Pr >= S 	0.9559

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.979823	Pr < W	0.8926
Kolmogorov-Smirnov	D	0.101629	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.035043	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.230648	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.9425253
99%	1.9425253
95%	1.6578086
90%	1.4684650
75% Q3	0.7387908
50% Median	-0.0448815
25% Q1	-0.7398427

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The UNIVARIATE Procedure Variable: studentresid (Studentized Residual)

Quantiles (Definition 5)	
Level	Quantile
10%	-1.0827650
5%	-1.3183926
1%	-2.3380431
0% Min	-2.3380431

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-2.338043	21	0.745453	6
-1.318393	9	0.825398	2
-1.082765	12	1.468465	14
-0.963549	13	1.657809	11
-0.924979	1	1.942525	22

```

Stem Leaf          #          Boxplot
  1 579             3             |
  1                 |
  0 577778         6             +-----+
  0 034             3             | + |
 -0 4441           4             *-----*
 -0 9965           4             +-----+
 -1 310            3             |
  -1               |
 -2 3              1             |
  -----+-----+-----+-----+
  
```

