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## The SAS System

## The Mixed Procedure

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

Class Level Information			
Class	lass Levels Value		
chemical	4	1234	
location	5	12345	

Dimensions		
<b>Covariance Parameters</b>	3	
Columns in X	5	
Columns in Z	25	
Subjects	1	
Max Obs Per Subject	40	

Number of Observations		
Number of Observations Read	40	
Number of Observations Used		
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
chemical	3	180.132750	60.044250	Var(Residual) + 2 Var (chemical*location) + Q(chemical)	MS (chemical*location)	12	44.59	<.0001
location	4	3.811500	0.952875	Var(Residual) + 2 Var (chemical*location) + 8 Var (location)	MS (chemical*location)	12	0.71	0.6020
chemical*location	12	16.158500	1.346542	Var(Residual) + 2 Var (chemical*location)	MS(Residual)	20	3.89	0.0037
Residual	20	6.925000	0.346250	Var(Residual)				

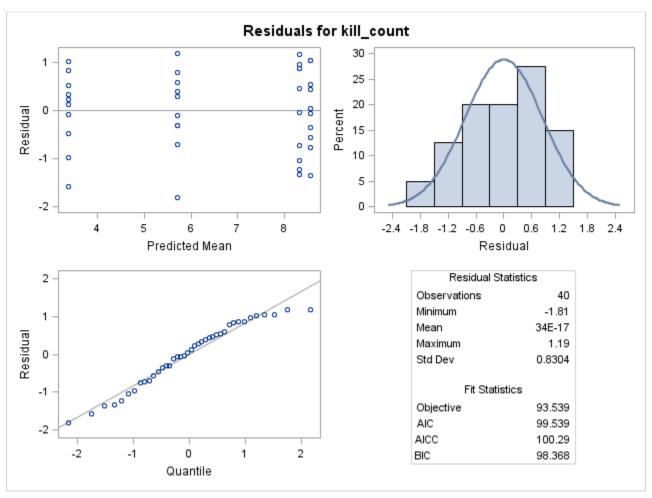
Covariance Parameter Estimates		
Cov Parm	Estimate	
location	-0.04921	
chemical*location	0.5001	

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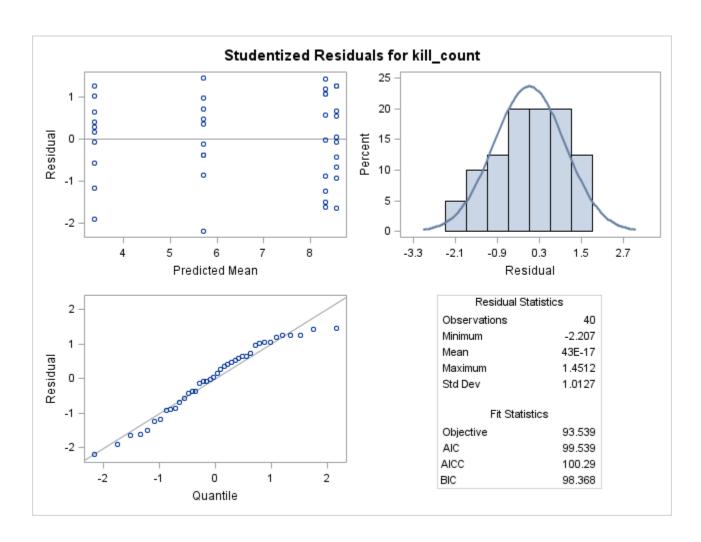
Covariance Parameter Estimates			
Cov Parm	Estimate		
Residual	0.3462		

Fit Statistics			
-2 Res Log Likelihood	93.5		
AIC (smaller is better)	99.5		
AICC (smaller is better)	100.3		
BIC (smaller is better)	98.4		

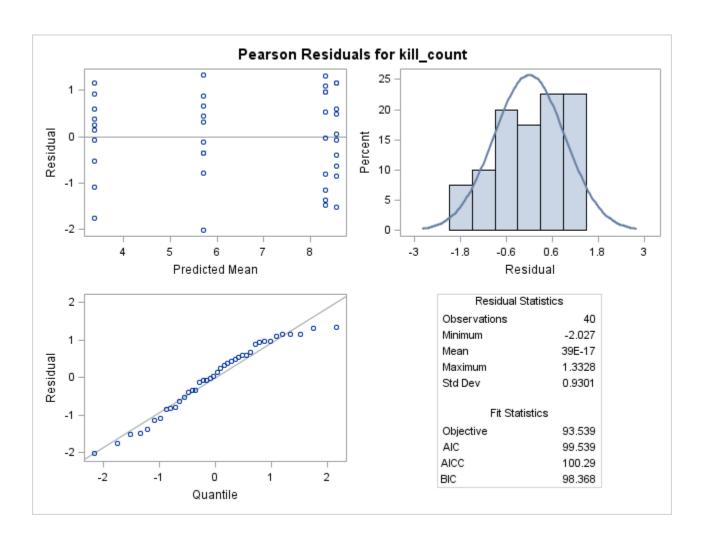
Type 3 Tests of Fixed Effects				
Effect Num DF		Den DF	F Value	Pr > F
chemical	3	12	44.59	<.0001



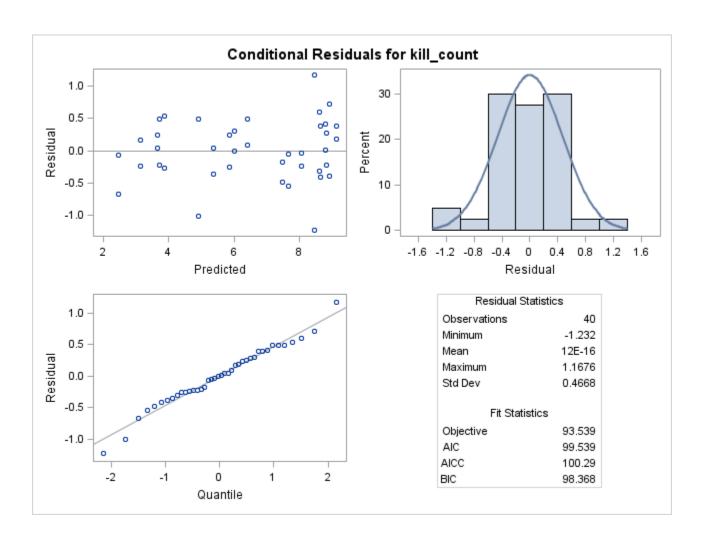
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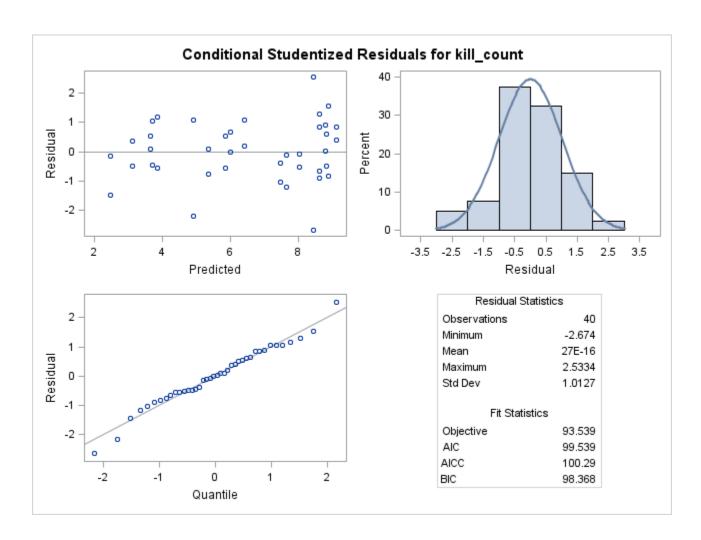
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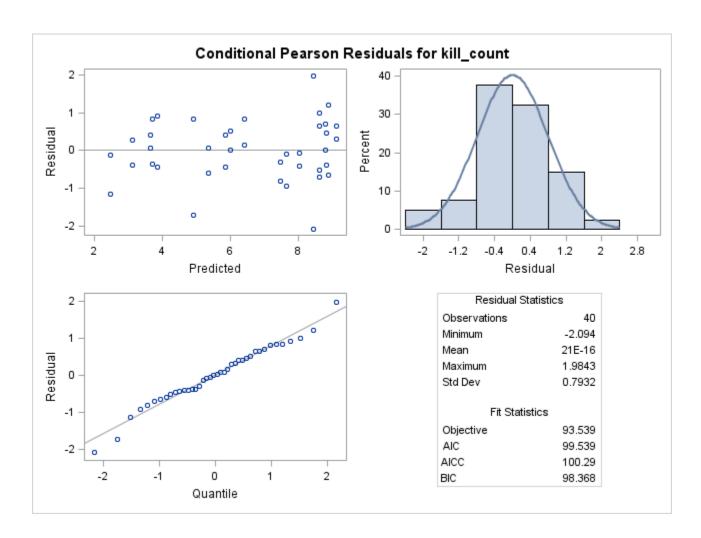
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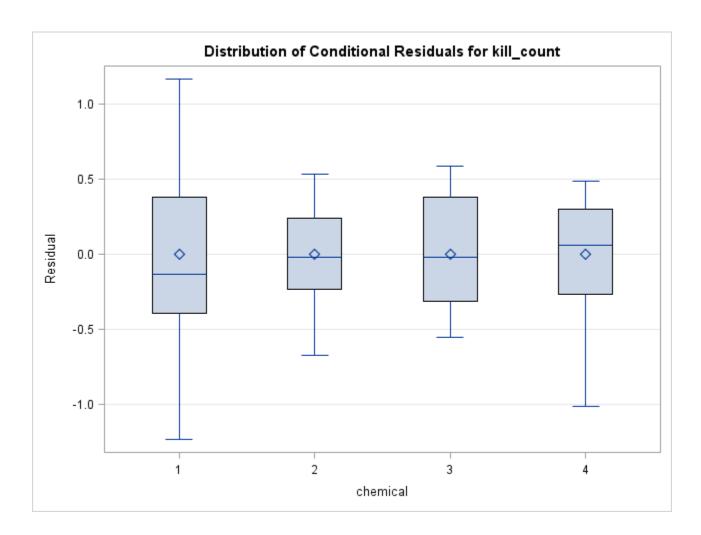
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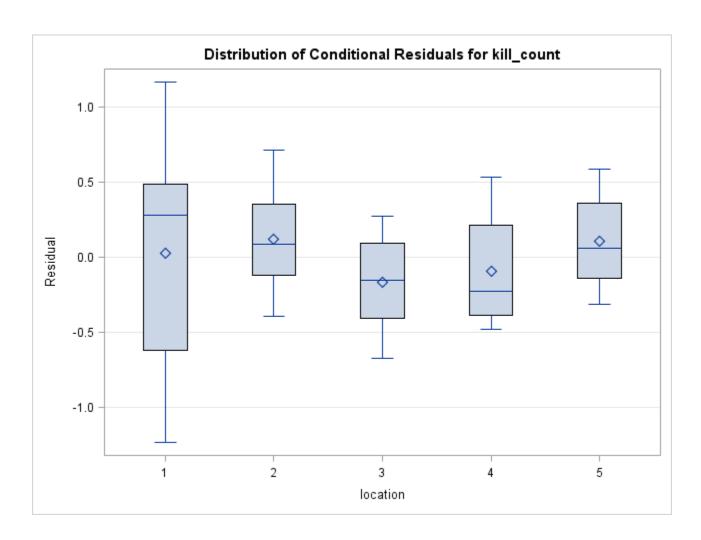
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