Repeated Measures on Chick Weight compound symmetry assumption

The Mixed Procedure

Model Information	
Data Set	REPEAT.REPEATDATA
Dependent Variable	weight
Covariance Structure	Compound Symmetry
Subject Effect	Chick(Diet)
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Class Level Information		
Class	**Levels**	**Values**
Diet	4	1 2 3 4
Chick	49	1 10 11 12 13 14 15 16 17 19 2 20 21 22 23 24 25 26 27 28 29 3 30 31 32 33 34 35 36 37 38 39 4 40 41 42 43 44 45 46 47 48 49 5 50 6 7 8 9
Time	3	10 18 21

Dimensions	
Covariance Parameters	2
Columns in X	20
Columns in Z	0
Subjects	49
Max Obs Per Subject	3

Number of Observations	
Number of Observations Read	141
Number of Observations Used	141
Number of Observations Not Used	0

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
0	1	1396.07743029	
1	2	1338.99956090	0.00000228
2	1	1338.99828947	0.00000000

Convergence criteria met.

The Mixed Procedure

Estimated R Correlation Matrix for Chick(Diet) 1 1			
Row	Col1	Col2	Col3
1	1.0000	0.6626	0.6626
2	0.6626	1.0000	0.6626
3	0.6626	0.6626	1.0000

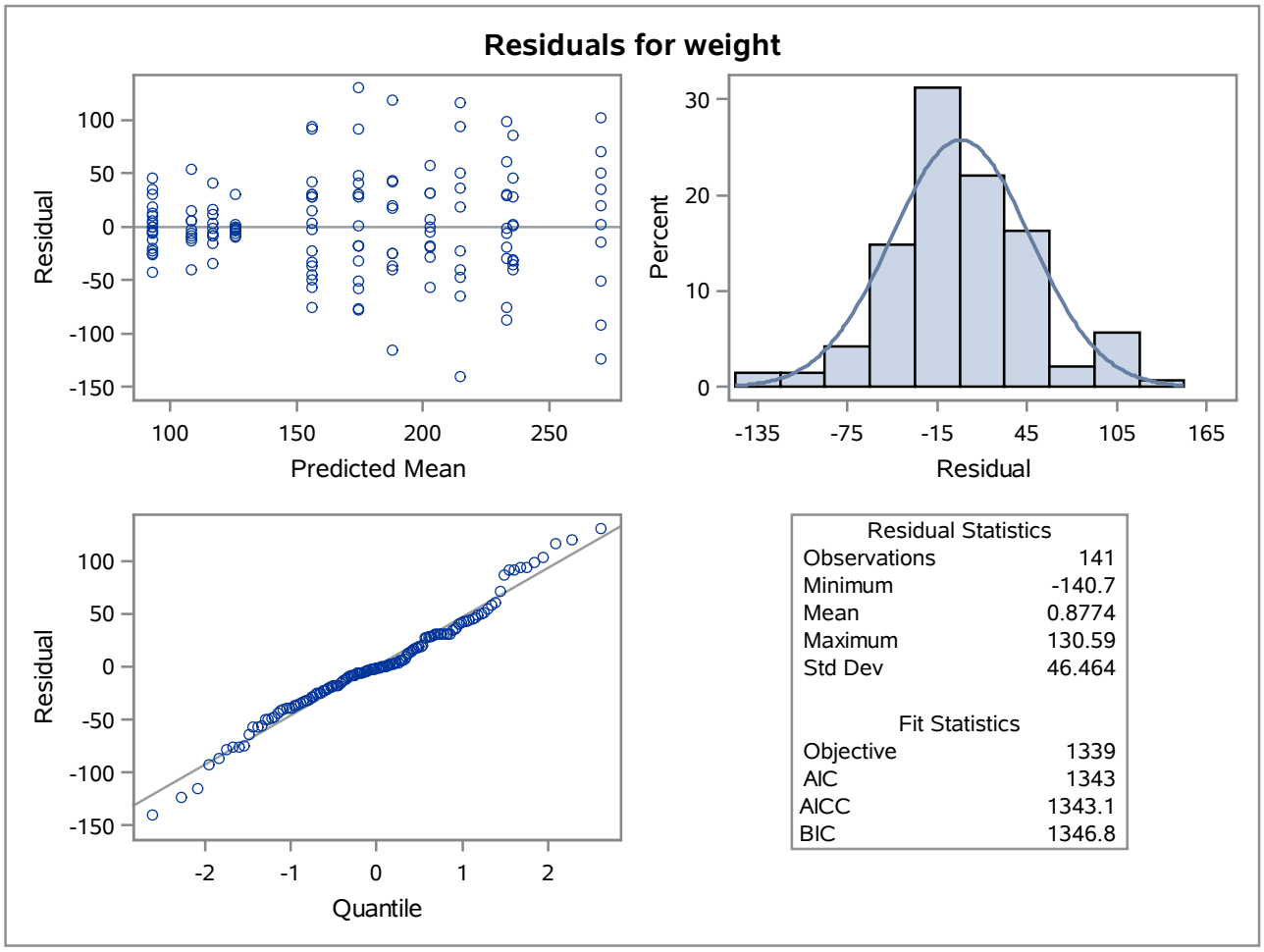
Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
CS	Chick(Diet)	1534.18
Residual		781.13

Fit Statistics	
-2 Res Log Likelihood	1339.0
AIC (smaller is better)	1343.0
AICC (smaller is better)	1343.1
BIC (smaller is better)	1346.8

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
1	57.08	<.0001

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Diet	3	45	5.95	0.0016
Time	2	84	192.58	<.0001
Diet*Time	6	84	3.76	0.0023

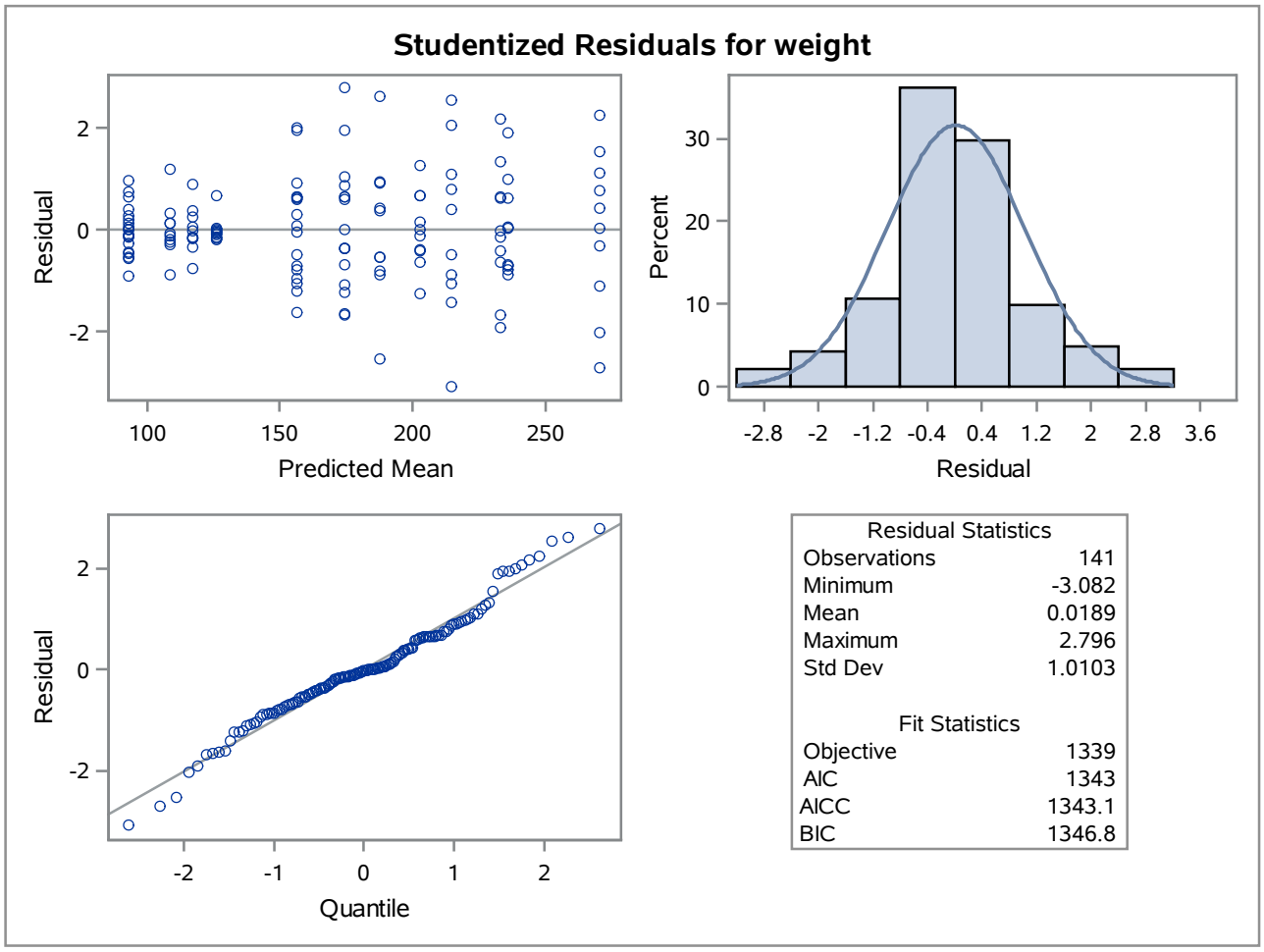
The Mixed Procedure



Residual Statistics	
Observations	141
Minimum	-140.7
Mean	0.8774
Maximum	130.59
Std Dev	46.464

Fit Statistics	
Objective	1339
AIC	1343
AICC	1343.1
BIC	1346.8

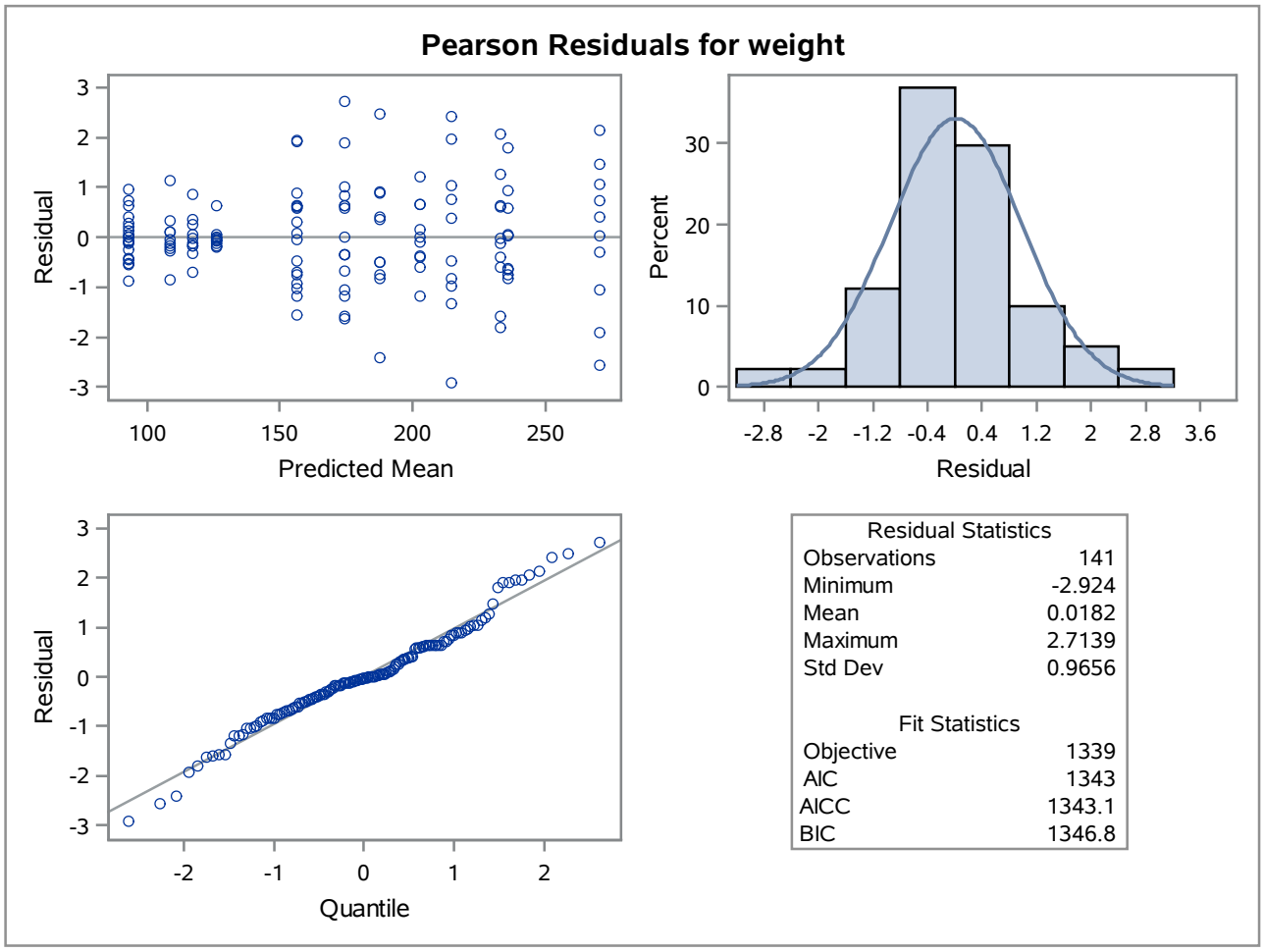
The Mixed Procedure



Residual Statistics	
Observations	141
Minimum	-3.082
Mean	0.0189
Maximum	2.796
Std Dev	1.0103

Fit Statistics	
Objective	1339
AIC	1343
AICC	1343.1
BIC	1346.8

The Mixed Procedure



Residual Statistics	
Observations	141
Minimum	-2.924
Mean	0.0182
Maximum	2.7139
Std Dev	0.9656

Fit Statistics	
Objective	1339
AIC	1343
AICC	1343.1
BIC	1346.8