

Obs	vitE	animal	week1	week2	week3	week4	week5	week6
1	C	1	455	460	510	504	436	466
2	C	2	467	565	610	596	542	587
3	C	3	445	530	580	597	582	619
4	C	4	485	542	594	583	611	612
5	C	5	480	500	550	528	562	576
6	L	6	514	560	565	524	552	597
7	L	7	440	480	536	484	567	569
8	L	8	495	570	569	585	576	677
9	L	9	520	590	610	637	671	702
10	L	10	503	555	591	605	649	675
11	H	11	496	560	622	622	632	670
12	H	12	498	540	589	557	568	609
13	H	13	478	510	568	555	576	605
14	H	14	545	565	580	601	633	649
15	H	15	472	498	540	524	532	583

The GLM Procedure

Class Level Information		
Class	Levels	Values
vitE	3	C H L
animal	15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Number of Observations Read	15
Number of Observations Used	15

The GLM Procedure
Repeated Measures Analysis of Variance

Repeated Measures Level Information						
Dependent Variable	week1	week2	week3	week4	week5	week6
Level of time	1	2	3	4	5	6

The GLM Procedure
Repeated Measures Analysis of Variance
Tests of Hypotheses for Between Subjects Effects

Source	DF	Type III SS	Mean Square	F Value	Pr > F
vitE	2	18548.0667	9274.0333	1.06	0.3782
Error	12	105434.2000	8786.1833		

The GLM Procedure
Repeated Measures Analysis of Variance
Univariate Tests of Hypotheses for Within Subject Effects

Source	DF	Type III SS	Mean Square	F Value	Pr > F	Adj Pr > F	
						G - G	H - F
time	5	142554.5000	28510.9000	52.55	<.0001	<.0001	<.0001
time*vitE	10	9762.7333	976.2733	1.80	0.0801	0.1457	0.1103
Error(time)	60	32552.6000	542.5433				

Greenhouse-Geisser Epsilon	0.4856
Huynh-Feldt Epsilon	0.7191

The Mixed Procedure

Model Information	
Data Set	WORK.RPTMS2
Dependent Variable	weight
Covariance Structure	Compound Symmetry
Subject Effect	animal(vitE)
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
vitE	3	C H L
animal	15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
time	6	1 2 3 4 5 6

Dimensions	
Covariance Parameters	2
Columns in X	28
Columns in Z	0
Subjects	15
Max Obs Per Subject	6

Number of Observations	
Number of Observations Read	90
Number of Observations Used	90
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	777.49082877	
1	1	720.04433706	0.00000000

The Mixed Procedure

Convergence criteria met.

Estimated R Matrix for animal(vitE) 1 C						
Row	Col1	Col2	Col3	Col4	Col5	Col6
1	1916.48	1373.94	1373.94	1373.94	1373.94	1373.94
2	1373.94	1916.48	1373.94	1373.94	1373.94	1373.94
3	1373.94	1373.94	1916.48	1373.94	1373.94	1373.94
4	1373.94	1373.94	1373.94	1916.48	1373.94	1373.94
5	1373.94	1373.94	1373.94	1373.94	1916.48	1373.94
6	1373.94	1373.94	1373.94	1373.94	1373.94	1916.48

Estimated R Correlation Matrix for animal(vitE) 1 C						
Row	Col1	Col2	Col3	Col4	Col5	Col6
1	1.0000	0.7169	0.7169	0.7169	0.7169	0.7169
2	0.7169	1.0000	0.7169	0.7169	0.7169	0.7169
3	0.7169	0.7169	1.0000	0.7169	0.7169	0.7169
4	0.7169	0.7169	0.7169	1.0000	0.7169	0.7169
5	0.7169	0.7169	0.7169	0.7169	1.0000	0.7169
6	0.7169	0.7169	0.7169	0.7169	0.7169	1.0000

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
CS	animal(vitE)	1373.94
Residual		542.54

Fit Statistics	
-2 Res Log Likelihood	720.0
AIC (smaller is better)	724.0
AICC (smaller is better)	724.2
BIC (smaller is better)	725.5

The Mixed Procedure

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
1	57.45	<.0001

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
vitE	2	12	1.06	0.3782
time	5	60	52.55	<.0001
vitE*time	10	60	1.80	0.0801

The Mixed Procedure

Model Information	
Data Set	WORK.RPTMS2
Dependent Variable	weight
Covariance Structure	Autoregressive
Subject Effect	animal(vitE)
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
vitE	3	C H L
animal	15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
time	6	1 2 3 4 5 6

Dimensions	
Covariance Parameters	2
Columns in X	28
Columns in Z	0
Subjects	15
Max Obs Per Subject	6

Number of Observations	
Number of Observations Read	90
Number of Observations Used	90
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	777.49082877	
1	2	708.62601446	0.00000425
2	1	708.62478288	0.00000000

The Mixed Procedure

Convergence criteria met.

Estimated R Matrix for animal(vitE) 1 C						
Row	Col1	Col2	Col3	Col4	Col5	Col6
1	1849.94	1513.00	1237.44	1012.06	827.73	676.97
2	1513.00	1849.94	1513.00	1237.44	1012.06	827.73
3	1237.44	1513.00	1849.94	1513.00	1237.44	1012.06
4	1012.06	1237.44	1513.00	1849.94	1513.00	1237.44
5	827.73	1012.06	1237.44	1513.00	1849.94	1513.00
6	676.97	827.73	1012.06	1237.44	1513.00	1849.94

Estimated R Correlation Matrix for animal(vitE) 1 C						
Row	Col1	Col2	Col3	Col4	Col5	Col6
1	1.0000	0.8179	0.6689	0.5471	0.4474	0.3659
2	0.8179	1.0000	0.8179	0.6689	0.5471	0.4474
3	0.6689	0.8179	1.0000	0.8179	0.6689	0.5471
4	0.5471	0.6689	0.8179	1.0000	0.8179	0.6689
5	0.4474	0.5471	0.6689	0.8179	1.0000	0.8179
6	0.3659	0.4474	0.5471	0.6689	0.8179	1.0000

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
AR(1)	animal(vitE)	0.8179
Residual		1849.94

Fit Statistics	
-2 Res Log Likelihood	708.6
AIC (smaller is better)	712.6
AICC (smaller is better)	712.8
BIC (smaller is better)	714.0

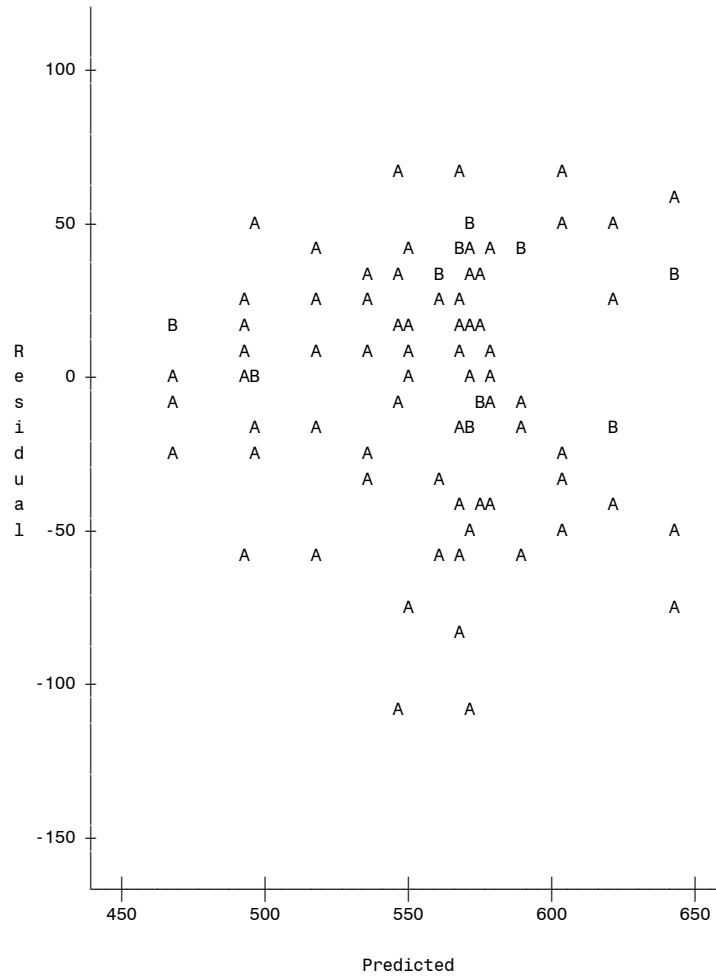
The Mixed Procedure

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
1	68.87	<.0001

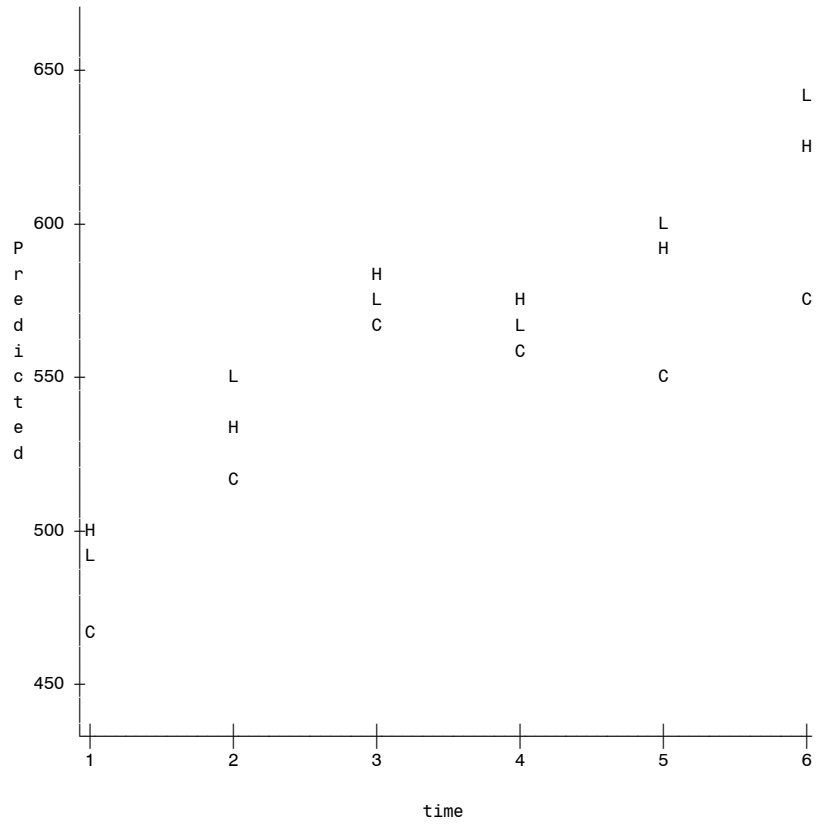
Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
vitE	2	12	1.19	0.3385
time	5	60	28.61	<.0001
vitE*time	10	60	1.51	0.1590

Least Squares Means							
Effect	vitE	time	Estimate	Standard Error	DF	t Value	Pr > t
vitE	C		539.13	16.1359	12	33.41	<.0001
vitE	H		565.90	16.1359	12	35.07	<.0001
vitE	L		572.27	16.1359	12	35.47	<.0001
time		1	486.20	11.1054	60	43.78	<.0001
time		2	535.00	11.1054	60	48.17	<.0001
time		3	574.27	11.1054	60	51.71	<.0001
time		4	566.80	11.1054	60	51.04	<.0001
time		5	579.27	11.1054	60	52.16	<.0001
time		6	613.07	11.1054	60	55.20	<.0001

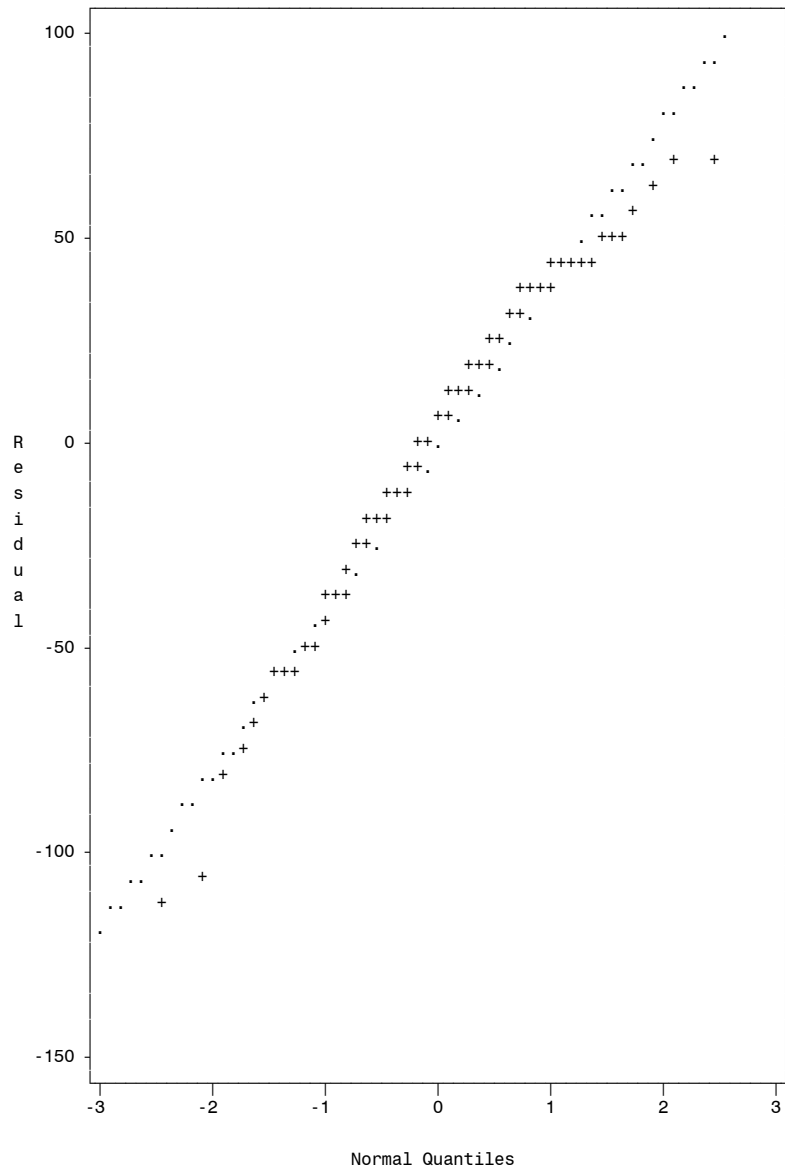
Plot of Resid*Pred. Legend: A = 1 obs, B = 2 obs, etc.



Plot of Pred*time. Symbol is value of vitE.



NOTE: 72 obs hidden.



The Mixed Procedure

Model Information	
Data Set	WORK.RPTMS2
Dependent Variable	weight
Covariance Structure	Heterogeneous Autoregressive
Subject Effect	animal(vitE)
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Class Level Information		
Class	Levels	Values
vitE	3	C H L
animal	15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
time	6	1 2 3 4 5 6

Dimensions	
Covariance Parameters	7
Columns in X	28
Columns in Z	0
Subjects	15
Max Obs Per Subject	6

Number of Observations	
Number of Observations Read	90
Number of Observations Used	90
Number of Observations Not Used	0

The Mixed Procedure

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	777.49082877	
1	2	728.88590014	0.06172140
2	1	705.83258470	0.02000216
3	1	698.82461427	0.00584037
4	1	696.69388076	0.00290663
5	1	695.70842354	0.00089241
6	1	695.41650554	0.00008387
7	1	695.39154879	0.00000082
8	1	695.39131756	0.00000000

Convergence criteria met.

Estimated R Matrix for animal(vitE) 1 C						
Row	Col1	Col2	Col3	Col4	Col5	Col6
1	873.15	978.70	653.66	816.22	760.93	595.68
2	978.70	1571.31	1049.46	1310.45	1221.67	956.36
3	653.66	1049.46	1003.98	1253.65	1168.73	914.92
4	816.22	1310.45	1253.65	2242.24	2090.35	1636.39
5	760.93	1221.67	1168.73	2090.35	2791.30	2185.12
6	595.68	956.36	914.92	1636.39	2185.12	2450.16

Estimated R Correlation Matrix for animal(vitE) 1 C						
Row	Col1	Col2	Col3	Col4	Col5	Col6
1	1.0000	0.8356	0.6981	0.5833	0.4874	0.4073
2	0.8356	1.0000	0.8356	0.6981	0.5833	0.4874
3	0.6981	0.8356	1.0000	0.8356	0.6981	0.5833
4	0.5833	0.6981	0.8356	1.0000	0.8356	0.6981
5	0.4874	0.5833	0.6981	0.8356	1.0000	0.8356
6	0.4073	0.4874	0.5833	0.6981	0.8356	1.0000

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
Var(1)	animal(vitE)	873.15
Var(2)	animal(vitE)	1571.31
Var(3)	animal(vitE)	1003.98
Var(4)	animal(vitE)	2242.24
Var(5)	animal(vitE)	2791.30
Var(6)	animal(vitE)	2450.16
ARH(1)	animal(vitE)	0.8356

Fit Statistics	
-2 Res Log Likelihood	695.4
AIC (smaller is better)	709.4
AICC (smaller is better)	711.1
BIC (smaller is better)	714.3

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
6	82.10	<.0001

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
vitE	2	12	1.21	0.3331
time	5	60	52.02	<.0001
vitE*time	10	60	1.60	0.1290

The Mixed Procedure

Model Information	
Data Set	WORK.RPTMS2
Dependent Variable	weight
Covariance Structure	Unstructured
Subject Effect	animal(vitE)
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Class Level Information		
Class	Levels	Values
vitE	3	C H L
animal	15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
time	6	1 2 3 4 5 6

Dimensions	
Covariance Parameters	21
Columns in X	28
Columns in Z	0
Subjects	15
Max Obs Per Subject	6

Number of Observations	
Number of Observations Read	90
Number of Observations Used	90
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	777.49082877	
1	1	661.36148921	0.00000000

The Mixed Procedure

Convergence criteria met.

Estimated R Matrix for animal(vitE) 1 C						
Row	Col1	Col2	Col3	Col4	Col5	Col6
1	706.77	711.57	401.65	709.47	725.83	705.68
2	711.57	1430.87	1107.75	1623.03	1419.52	1669.62
3	401.65	1107.75	1082.70	1423.12	1440.65	1474.77
4	709.47	1623.03	1423.12	2408.83	2185.53	2385.43
5	725.83	1419.52	1440.65	2185.53	3074.83	2625.48
6	705.68	1669.62	1474.77	2385.43	2625.48	2794.90

Estimated R Correlation Matrix for animal(vitE) 1 C						
Row	Col1	Col2	Col3	Col4	Col5	Col6
1	1.0000	0.7076	0.4592	0.5437	0.4924	0.5021
2	0.7076	1.0000	0.8900	0.8742	0.6768	0.8349
3	0.4592	0.8900	1.0000	0.8812	0.7896	0.8478
4	0.5437	0.8742	0.8812	1.0000	0.8031	0.9193
5	0.4924	0.6768	0.7896	0.8031	1.0000	0.8956
6	0.5021	0.8349	0.8478	0.9193	0.8956	1.0000

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	animal(vitE)	706.77
UN(2,1)	animal(vitE)	711.57
UN(2,2)	animal(vitE)	1430.87
UN(3,1)	animal(vitE)	401.65
UN(3,2)	animal(vitE)	1107.75
UN(3,3)	animal(vitE)	1082.70
UN(4,1)	animal(vitE)	709.47
UN(4,2)	animal(vitE)	1623.03
UN(4,3)	animal(vitE)	1423.12
UN(4,4)	animal(vitE)	2408.83

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(5,1)	animal(vitE)	725.83
UN(5,2)	animal(vitE)	1419.52
UN(5,3)	animal(vitE)	1440.65
UN(5,4)	animal(vitE)	2185.53
UN(5,5)	animal(vitE)	3074.83
UN(6,1)	animal(vitE)	705.68
UN(6,2)	animal(vitE)	1669.62
UN(6,3)	animal(vitE)	1474.77
UN(6,4)	animal(vitE)	2385.43
UN(6,5)	animal(vitE)	2625.48
UN(6,6)	animal(vitE)	2794.90

Fit Statistics	
-2 Res Log Likelihood	661.4
AIC (smaller is better)	703.4
AICC (smaller is better)	721.8
BIC (smaller is better)	718.2

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
20	116.13	<.0001

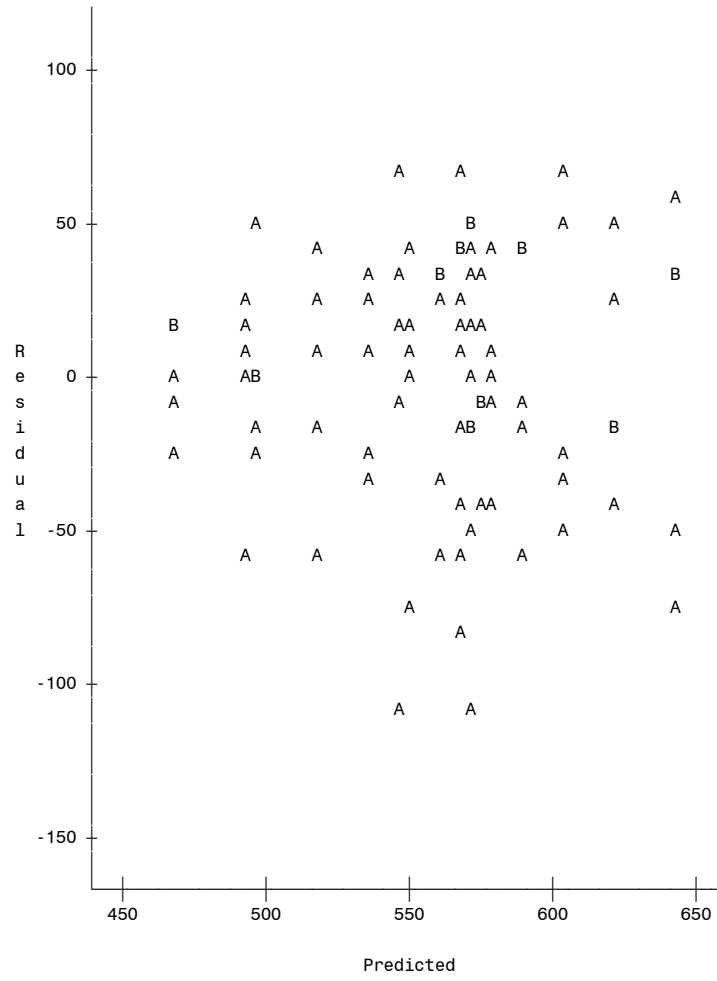
Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
vitE	2	12	1.06	0.3782
time	5	12	59.43	<.0001
vitE*time	10	12	3.83	0.0157

The Mixed Procedure

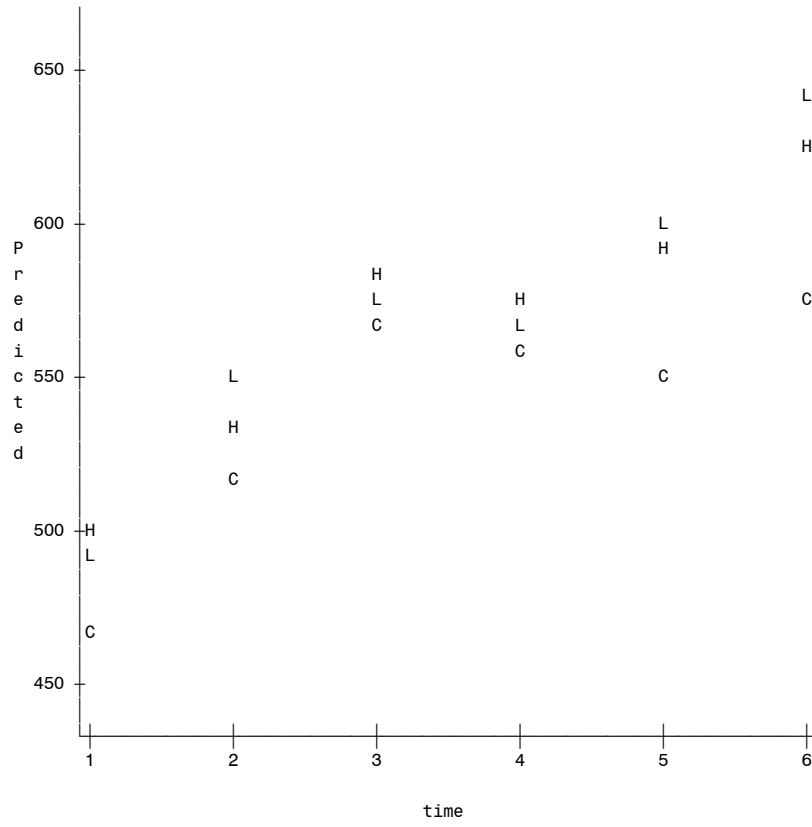
Least Squares Means							
Effect	vitE	time	Estimate	Standard Error	DF	t Value	Pr > t
vitE*time	C	1	466.40	11.8892	12	39.23	<.0001
vitE*time	C	2	519.40	16.9167	12	30.70	<.0001
vitE*time	C	3	568.80	14.7153	12	38.65	<.0001
vitE*time	C	4	561.60	21.9492	12	25.59	<.0001
vitE*time	C	5	546.60	24.7985	12	22.04	<.0001
vitE*time	C	6	572.00	23.6428	12	24.19	<.0001
vitE*time	H	1	497.80	11.8892	12	41.87	<.0001
vitE*time	H	2	534.60	16.9167	12	31.60	<.0001
vitE*time	H	3	579.80	14.7153	12	39.40	<.0001
vitE*time	H	4	571.80	21.9492	12	26.05	<.0001
vitE*time	H	5	588.20	24.7985	12	23.72	<.0001
vitE*time	H	6	623.20	23.6428	12	26.36	<.0001
vitE*time	L	1	494.40	11.8892	12	41.58	<.0001
vitE*time	L	2	551.00	16.9167	12	32.57	<.0001
vitE*time	L	3	574.20	14.7153	12	39.02	<.0001
vitE*time	L	4	567.00	21.9492	12	25.83	<.0001
vitE*time	L	5	603.00	24.7985	12	24.32	<.0001
vitE*time	L	6	644.00	23.6428	12	27.24	<.0001

Tests of Effect Slices					
Effect	time	Num DF	Den DF	F Value	Pr > F
vitE*time	1	2	12	2.10	0.1651
vitE*time	2	2	12	0.87	0.4427
vitE*time	3	2	12	0.14	0.8710
vitE*time	4	2	12	0.05	0.9476
vitE*time	5	2	12	1.39	0.2863
vitE*time	6	2	12	2.46	0.1276

Plot of Resid*Pred. Legend: A = 1 obs, B = 2 obs, etc.



Plot of Pred*time. Symbol is value of vitE.



NOTE: 72 obs hidden.

