The SAS System

The GLIMMIX Procedure

Model Information	
Data Set	WORK.JUNE
Response Variable	Count
Response Distribution	Negative Binomial
Link Function	Log
Variance Function	Default
Variance Matrix	Not blocked
Estimation Technique	Residual PL
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
Treatment	5	BuckPheroPpo BuckPpo DeltPheroPpo WingPhero WingPheroPpo
Rep	8	1 2 3 4 5 6 7 8

Number of Observations Read	40
Number of Observations Used	40

Dimensions	
G-side Cov. Parameters	1
R-side Cov. Parameters	1
Columns in X	6
Columns in Z	8
Subjects (Blocks in V)	1
Max Obs per Subject	40

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	2
Lower Boundaries	2
Upper Boundaries	0
Fixed Effects	Profiled
Starting From	Data

Iteration History

Iteration	Restarts	Subiterations	Objective Function	Change	Max Gradient
0	0	5	59.727255164	0.22891732	0.000196
1	0	5	68.24846865	0.08064152	0.000293
2	0	3	71.907099953	0.00720942	2.941E-6
3	0	2	72.533735623	0.00033119	5.631E-6
4	0	2	72.548548183	0.00001129	0.000013
5	0	2	72.548609647	0.00000181	9.943E-6
6	0	0	72.548614601	0.00000002	5.444E-6
7	0	0	72.548615178	0.00000000	7.221E-6

Convergence criterion (PCONV=1.11022E-8) satisfied.

Fit Statistics

-2 Res Log Pseudo-Likelihood	72.55
Generalized Chi-Square	37.46
Gener. Chi-Square / DF	1.07

Covariance Parameter Estimates

Cov Parm	Estimate	Standard Error
Rep	0.02120	0.02765
Scale	0.06174	0.03699

Type III Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Treatment	4	28	45.11	<.0001

Treatment Least Squares Means

Treatment	Estimate	Standard Error	DF	t Value	Pr > |t|
BuckPheroPpo	2.6210	0.1395	28	18.79	<.0001
BuckPpo	2.1591	0.1574	28	13.71	<.0001
DeltPheroPpo	2.6487	0.1386	28	19.11	<.0001
WingPhero	-2.0828	1.0049	28	-2.07	0.0475
WingPheroPpo	4.0357	0.1122	28	35.98	<.0001

Differences of Treatment Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Treatment	_Treatment	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P
BuckPheroPpo	BuckPpo	0.4619	0.1973	28	2.34	0.0266	0.1621
BuckPheroPpo	DeltPheroPpo	-0.02777	0.1827	28	-0.15	0.8803	0.9999
BuckPheroPpo	WingPhero	4.7038	1.0120	28	4.65	<.0001	0.0006
BuckPheroPpo	WingPheroPpo	-1.4147	0.1635	28	-8.65	<.0001	<.0001
BuckPpo	DeltPheroPpo	-0.4896	0.1967	28	-2.49	0.0190	0.1219
BuckPpo	WingPhero	4.2419	1.0146	28	4.18	0.0003	0.0022
BuckPpo	WingPheroPpo	-1.8766	0.1791	28	-10.48	<.0001	<.0001
DeltPheroPpo	WingPhero	4.7316	1.0118	28	4.68	<.0001	0.0006
DeltPheroPpo	WingPheroPpo	-1.3869	0.1628	28	-8.52	<.0001	<.0001
WingPhero	WingPheroPpo	-6.1185	1.0086	28	-6.07	<.0001	<.0001

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

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

Treatment	Estimate	
WingPheroPpo	4.0357	A
DeltPheroPpo	2.6487	B
		B
BuckPheroPpo	2.6210	B
		B
BuckPpo	2.1591	B
WingPhero	-2.0828	C