The GLIMMIX Procedure

Model Information	
Data Set	WORK.PLANTCOVERAGE_YEAR2
Response Variable	Total_Bees
Response Distribution	Poisson
Link Function	Log
Variance Function	Default
Variance Matrix	Not blocked
Estimation Technique	Residual PL
Degrees of Freedom Method	Satterthwaite

Class Level Information		
Class	**Levels**	**Values**
Sampling_Day	5	1 2 3 4 5
Site	10	Bowman Cretsinger Elkader Kaldenberg McClellan NealSmith Peckumn Plunkett Sheller Sloan

Number of Observations Read	50
Number of Observations Used	50

Dimensions	
G-side Cov. Parameters	1
Columns in X	12
Columns in Z	10
Subjects (Blocks in V)	1
Max Obs per Subject	50

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	1
Lower Boundaries	1
Upper Boundaries	0
Fixed Effects	Profiled
Starting From	Data

The GLIMMIX Procedure

Iteration History					
Iteration	Restarts	Subiterations	Objective Function	Change	Max Gradient
0	0	4	525.54596477	2.00000000	0.000122
1	0	3	677.67741207	0.73423424	0.000226
2	0	2	718.40784363	0.07623192	8.893E-6
3	0	1	720.73748611	0.00028492	7.364E-7
4	0	0	720.74555197	0.00000000	4.516E-6

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

Fit Statistics	
-2 Res Log Pseudo-Likelihood	720.75
Generalized Chi-Square	708.64
Gener. Chi-Square / DF	17.72

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
Site	0.3534	0.1739

Solutions for Fixed Effects						
Effect	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		3.0960	0.2140	13.83	14.47	<.0001
Average_Coverage		0.02178	0.003912	40	5.57	<.0001
Sampling_Day	1	0.1005	0.1211	40	0.83	0.4112
Sampling_Day	2	0.7167	0.1130	40	6.34	<.0001
Sampling_Day	3	0.1588	0.1267	40	1.25	0.2176
Sampling_Day	4	0.5741	0.1320	40	4.35	<.0001
Sampling_Day	5	0	.	.	.	.
Average_C*Sampling_D	1	0.1078	0.01788	40	6.03	<.0001
Average_C*Sampling_D	2	0.007733	0.01591	40	0.49	0.6296
Average_C*Sampling_D	3	-0.00372	0.005408	40	-0.69	0.4958
Average_C*Sampling_D	4	-0.02499	0.005326	40	-4.69	<.0001
Average_C*Sampling_D	5	0	.	.	.	.

The GLIMMIX Procedure

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Average_Coverage	1	40	32.63	<.0001
Sampling_Day	4	40	22.68	<.0001
Average_C*Sampling_D	4	40	20.15	<.0001

Sampling_Day Least Squares Means								
Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
1	4.5648	0.2429	22.16	18.80	<.0001	0.05	4.0614	5.0683
2	4.1244	0.2349	19.63	17.56	<.0001	0.05	3.6337	4.6150
3	3.4455	0.1964	9.843	17.54	<.0001	0.05	3.0068	3.8841
4	3.6361	0.1986	10.27	18.31	<.0001	0.05	3.1952	4.0770
5	3.3260	0.2007	10.71	16.58	<.0001	0.05	2.8829	3.7691

Conditional Studentized Residuals