The GLIMMIX Procedure

Model Information	
Data Set	WORK.PLANTCOVERAGE_YEAR1
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	4	2 3 4 5
Site	10	Bowman Cretsinger Elkader Greving Kaldenberg McClellan NealSmith Plunkett Sheller Sloan
A	41	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

Number of Observations Read	41
Number of Observations Used	41

Dimensions	
G-side Cov. Parameters	2
Columns in X	10
Columns in Z	51
Subjects (Blocks in V)	1
Max Obs per Subject	41

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	2
Lower Boundaries	2
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	83.610379257	0.04028857	0.000073
1	0	3	83.686119286	0.00077764	1.785E-7
2	0	2	83.687213198	0.00000691	0.000016
3	0	1	83.687216579	0.00000097	0.000016
4	0	1	83.687216676	0.00000017	5.015E-6
5	0	0	83.687216588	0.00000000	5.021E-6

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

Fit Statistics	
-2 Res Log Pseudo-Likelihood	83.69
Generalized Chi-Square	33.89
Gener. Chi-Square / DF	1.03

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
Site	0.1645	0.1151
A	0.1773	0.06036

Solutions for Fixed Effects						
Effect	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		3.6397	0.2637	30.28	13.80	<.0001
Average_Coverage		0.03753	0.02287	27.73	1.64	0.1122
Sampling_Day	2	0.7794	0.2809	24	2.77	0.0105
Sampling_Day	3	0.3913	0.2778	22.83	1.41	0.1725
Sampling_Day	4	-0.6786	0.3906	30.41	-1.74	0.0925
Sampling_Day	5	0	.	.	.	.
Average_C*Sampling_D	2	-0.03351	0.03642	22.04	-0.92	0.3674
Average_C*Sampling_D	3	0.01353	0.04696	22.12	0.29	0.7760
Average_C*Sampling_D	4	0.1011	0.06091	30.74	1.66	0.1070
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	32.33	5.02	0.0321
Sampling_Day	3	25.59	5.88	0.0034
Average_C*Sampling_D	3	24.4	1.43	0.2578

Sampling_Day Least Squares Means								
Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
2	4.4379	0.1896	17.71	23.41	<.0001	0.05	4.0392	4.8366
3	4.2696	0.2131	22.77	20.04	<.0001	0.05	3.8285	4.7106
4	3.6087	0.1954	20.94	18.47	<.0001	0.05	3.2022	4.0152
5	3.8150	0.2051	22.48	18.60	<.0001	0.05	3.3903	4.2398

Conditional Studentized Residuals