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
A	50	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 42 43 44 45 46 47 48 49 50

Number of Observations Read	50
Number of Observations Used	50

Dimensions	
G-side Cov. Parameters	2
Columns in X	12
Columns in Z	60
Subjects (Blocks in V)	1
Max Obs per Subject	50

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	144.76887246	0.07611039	0.000014
1	0	3	145.25702041	0.00454054	6.942E-6
2	0	3	145.28515119	0.00014368	0.000051
3	0	1	145.28543725	0.00000263	5.91E-6
4	0	0	145.28544096	0.00000000	5.039E-6

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

Fit Statistics	
-2 Res Log Pseudo-Likelihood	145.29
Generalized Chi-Square	41.19
Gener. Chi-Square / DF	1.03

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
Site	0.2573	0.1836
A	0.5041	0.1403

Solutions for Fixed Effects						
Effect	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		3.0029	0.4016	37.51	7.48	<.0001
Average_Coverage		0.02408	0.01654	35.28	1.46	0.1544
Sampling_Day	1	-0.4526	0.4683	36.07	-0.97	0.3403
Sampling_Day	2	0.6054	0.4542	33.23	1.33	0.1916
Sampling_Day	3	0.3012	0.4819	32.6	0.62	0.5364
Sampling_Day	4	0.5523	0.5273	31.77	1.05	0.3028
Sampling_Day	5	0	.	.	.	.
Average_C*Sampling_D	1	0.1662	0.08074	35.73	2.06	0.0468
Average_C*Sampling_D	2	0.02718	0.06767	33.87	0.40	0.6905
Average_C*Sampling_D	3	-0.01208	0.02280	32.4	-0.53	0.5997
Average_C*Sampling_D	4	-0.02216	0.02271	30.81	-0.98	0.3368
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	33.68	4.89	0.0339
Sampling_Day	4	32.98	2.15	0.0961
Average_C*Sampling_D	4	31.58	1.59	0.2010

Sampling_Day Least Squares Means								
Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
1	4.5602	0.7350	35.28	6.20	<.0001	0.05	3.0685	6.0519
2	4.1496	0.6261	34.75	6.63	<.0001	0.05	2.8783	5.4210
3	3.4308	0.2872	27.56	11.95	<.0001	0.05	2.8421	4.0194
4	3.5755	0.3197	30.89	11.18	<.0001	0.05	2.9234	4.2277
5	3.2572	0.3041	30.64	10.71	<.0001	0.05	2.6367	3.8777

Conditional Studentized Residuals