

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 Kalderberg McClellan NealSmith Plunkett Sheller Sloan

Number of Observations Read	41
Number of Observations Used	41

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

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

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Iteration History					
Iteration	Restarts	Subiterations	Objective Function	Change	Max Gradient
0	0	5	197.39376333	0.86279758	4.752E-6
1	0	3	230.35210546	0.08574254	0.000127
2	0	2	235.34362892	0.00079103	0.000014
3	0	1	235.44597509	0.00000455	0.000038
4	0	1	235.44603449	0.00000150	0.000013
5	0	1	235.44603098	0.00000049	4.137E-6
6	0	0	235.44603214	0.00000000	4.135E-6

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

Fit Statistics	
-2 Res Log Pseudo-Likelihood	235.45
Generalized Chi-Square	242.84
Gener. Chi-Square / DF	7.36

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
Site	0.2540	0.1226

Solutions for Fixed Effects						
Effect	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > t
Intercept		3.7801	0.1761	12.78	21.46	<.0001
Average_Coverage		0.01728	0.006539	33	2.64	0.0125
Sampling_Day	2	0.8430	0.08484	33	9.94	<.0001
Sampling_Day	3	0.3911	0.08544	33	4.58	<.0001
Sampling_Day	4	-0.5380	0.1696	33	-3.17	0.0033
Sampling_Day	5	0
Average_C*Sampling_D	2	-0.05461	0.008711	33	-6.27	<.0001
Average_C*Sampling_D	3	-0.00562	0.01169	33	-0.48	0.6340
Average_C*Sampling_D	4	0.07586	0.02504	33	3.03	0.0047
Average_C*Sampling_D	5	0

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Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Average_Coverage	1	33	6.30	0.0171
Sampling_Day	3	33	52.25	<.0001
Average_C*Sampling_D	3	33	18.99	<.0001

Sampling_Day Least Squares Means								
Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
2	4.4488	0.1628	9.327	27.33	<.0001	0.05	4.0826	4.8150
3	4.2257	0.1653	9.913	25.57	<.0001	0.05	3.8570	4.5944
4	3.6772	0.1690	10.85	21.76	<.0001	0.05	3.3045	4.0498
5	3.8609	0.1680	10.58	22.98	<.0001	0.05	3.4894	4.2323

Conditional Studentized Residuals

