Model Information				
Data Set	WORK.PLANTCOVERAGE_YEAR1			
Response Variable	Total_Bees			
Response Distribution	Negative Binomial			
Link Function	Log			
Variance Function	Default			
Variance Matrix	Not blocked			
Estimation Technique	Residual PL			
Degrees of Freedom Method	Satterthwaite			

	Class Level Information						
Class	Class Levels Values						
Sampling_Day	4	2345					
Site	10	Bowman Cretsinger Elkader Greving Kaldenberg McClellan NealSmith Plunkett Sheller Sloan					

Number of Observations Read	41
Number of Observations Used	41

Dimensions				
G-side Cov. Parameters	1			
R-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-Newto						
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	6	83.572836804	1.62837804	0.00002			
1	0	6	77.298935424	0.42019132	0.000395			
2	0	5	77.951108445	0.19647095	0.000048			
3	0	4	77.925865727	0.07320946	6.851E-6			
4	0	3	77.935182647	0.02081360	2.125E-6			
5	0	3	77.933210667	0.00622148	2.776E-6			
6	0	3	77.93373214	0.00191233	0.000027			
7	0	2	77.933613715	0.00058277	4.673E-6			
8	0	2	77.933642511	0.00018588	4.356E-7			
9	0	2	77.933636059	0.00005816	1.084E-7			
10	0	2	77.933637641	0.00001880	5.072E-7			
11	0	2	77.933637253	0.00000621	4.795E-6			
12	0	1	77.933637258	0.00000511	0.000024			
13	0	1	77.933638653	0.00000206	0.000013			
14	0	1	77.933637936	0.0000019	6.438E-6			
15	0	0	77.933637772	0.00000006	6.629E-6			
16	0	0	77.933637773	0.00000002	6.612E-6			
17	0	0	77.93363777	0.00000000	6.619E-6			

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

Fit Statistics				
-2 Res Log Pseudo-Likelihood	77.93			
Generalized Chi-Square	33.09			
Gener. Chi-Square / DF	1.00			

Covariance Parameter Estimates								
Cov Standard Parm Estimate Error								
Site	<b>Site</b> 0.1490 0.1016							
Scale	0.1498	0.05035						

Solutions for Fixed Effects									
Effect	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr >  t			
Intercept		3.6425	0.2457	31.65	14.82	<.0001			
Average_Coverage		0.03914	0.02117	28.86	1.85	0.0747			
Sampling_Day	2	0.8611	0.2586	24.72	3.33	0.0027			
Sampling_Day	3	0.4883	0.2561	23.76	1.91	0.0687			
Sampling_Day	4	-0.6815	0.3616	32.32	-1.88	0.0685			
Sampling_Day	5	0							
Average_C*Sampling_D	2	-0.03986	0.03352	22.63	-1.19	0.2467			
Average_C*Sampling_D	3	0.001771	0.04328	22.86	0.04	0.9677			
Average_C*Sampling_D	4	0.1077	0.05628	32.29	1.91	0.0646			
Average_C*Sampling_D	5	0							

Type III Tests of Fixed Effects									
Effect Num Den DF F Value Pr > F									
Average_Coverage	1	33	5.58	0.0242					
Sampling_Day	3	26.47	8.04	0.0006					
Average_C*Sampling_D	3	25.24	2.00	0.1394					

Sampling_Day Least Squares Means										
Sampling_Day Estimate Error DF t Value Pr >  t  Alpha Lower Upp										
2	4.5002	0.1771	17.82	25.41	<.0001	0.05	4.1279	4.8726		
3	4.3218	0.1990	23.29	21.72	<.0001	0.05	3.9104	4.7332		
4	3.6469	0.1831	21.25	19.92	<.0001	0.05	3.2664	4.0274		
5	3.8253	0.1920	22.96	19.93	<.0001	0.05	3.4282	4.2224		

Differences of Sampling_Day Least Squares Means									
Sampling_Day	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
2	3	0.1784	0.1966	20.86	0.91	0.3745	0.05	-0.2306	0.5873
2	4	0.8533	0.1876	24.28	4.55	0.0001	0.05	0.4663	1.2403
2	5	0.6749	0.2002	24.95	3.37	0.0024	0.05	0.2625	1.0874
3	4	0.6749	0.2092	24.9	3.23	0.0035	0.05	0.2440	1.1059
3	5	0.4966	0.2229	25.82	2.23	0.0349	0.05	0.03816	0.9550
4	5	-0.1784	0.2007	26	-0.89	0.3822	0.05	-0.5909	0.2341

