

The Mixed Procedure

Model Information	
Data Set	WORK.PLANTCOVERAGE_YEARS12
Dependent Variable	log_Total_Bees
Covariance Structure	Variance Components
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Satterthwaite

Class Level Information		
Class	Levels	Values
Site	11	Bowman Cretsinger Elkader Greving Kalenberg McClellan NealSmith Peckumn Plunkett Sheller Sloan
Year	2	1 2
Sampling_Day	5	1 2 3 4 5

Dimensions	
Covariance Parameters	3
Columns in X	34
Columns in Z	65
Subjects	1
Max Obs per Subject	91

Number of Observations	
Number of Observations Read	91
Number of Observations Used	91
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	253.79369592	
1	2	239.84244589	0.00497593
2	1	239.53475230	0.00056097
3	1	239.50262589	0.00001260
4	1	239.50195137	0.00000001

Convergence criteria met.

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Covariance Parameter Estimates	
Cov Parm	Estimate
Site	0.2710
Site*Sampling_Day	0.1207
Residual	0.3520

Fit Statistics	
-2 Res Log Likelihood	239.5
AIC (Smaller is Better)	245.5
AICC (Smaller is Better)	245.8
BIC (Smaller is Better)	246.7

Solution for Fixed Effects							
Effect	Year	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept			3.1144	0.3636	62.7	8.56	<.0001
Average_Coverage			0.02046	0.01470	67.7	1.39	0.1685
Sampling_Day		1	-0.6737	0.4145	60.9	-1.63	0.1093
Sampling_Day		2	0.4610	0.4107	61.1	1.12	0.2660
Sampling_Day		3	0.2792	0.4389	62	0.64	0.5270
Sampling_Day		4	0.5989	0.4824	60.7	1.24	0.2192
Sampling_Day		5	0	.	.	.	.
Average_C*Sampling_D		1	0.1827	0.07545	62.8	2.42	0.0184
Average_C*Sampling_D		2	0.03368	0.06400	65	0.53	0.6005
Average_C*Sampling_D		3	-0.01058	0.02096	66.4	-0.50	0.6153
Average_C*Sampling_D		4	-0.02396	0.02090	63.4	-1.15	0.2558
Average_C*Sampling_D		5	0	.	.	.	.
Year	1		0.6706	0.4034	26.2	1.66	0.1083
Year	2		0	.	.	.	.
Average_Coverag*Year	1		-0.00735	0.03137	38.4	-0.23	0.8159
Average_Coverag*Year	2		0	.	.	.	.
Year*Sampling_Day	1	2	0.1334	0.5120	25.4	0.26	0.7965
Year*Sampling_Day	1	3	0.03132	0.5402	27.9	0.06	0.9542
Year*Sampling_Day	1	4	-1.2687	0.6429	26.3	-1.97	0.0591
Year*Sampling_Day	1	5	0
Year*Sampling_Day	2	1	0
Year*Sampling_Day	2	2	0

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Solution for Fixed Effects							
Effect	Year	Sampling_Day	Estimate	Standard Error	DF	t Value	Pr > t
Year*Sampling_Day	2	3	0	.	.	.	.
Year*Sampling_Day	2	4	0	.	.	.	.
Year*Sampling_Day	2	5	0	.	.	.	.
Average*Year*Samplin	1	2	-0.04823	0.08041	64.9	-0.60	0.5507
Average*Year*Samplin	1	3	-0.00107	0.07060	47.7	-0.02	0.9880
Average*Year*Samplin	1	4	0.1127	0.08286	55.7	1.36	0.1793
Average*Year*Samplin	1	5	0	.	.	.	.
Average*Year*Samplin	2	1	0	.	.	.	.
Average*Year*Samplin	2	2	0	.	.	.	.
Average*Year*Samplin	2	3	0	.	.	.	.
Average*Year*Samplin	2	4	0	.	.	.	.
Average*Year*Samplin	2	5	0	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Average_Coverage	1	67.2	5.05	0.0280
Sampling_Day	4	33.5	4.20	0.0073
Average_C*Sampling_D	4	56	1.78	0.1449
Year	1	26	3.87	0.0599
Average_Coverag*Year	1	52.7	0.07	0.7996
Year*Sampling_Day	3	26.5	2.06	0.1291
Average*Year*Samplin	3	56.4	0.84	0.4802

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Conditional Studentized Residuals for log_Total_Bees

